

# ASTER/PALSAR Unified Search Site

## User's Manual

June 25, 2012

| Revision History |            |                              |         |
|------------------|------------|------------------------------|---------|
| Version          | Date       | Description of Revision      | Remarks |
| First ver.       | 2012/06/25 | Release of the first version | -       |

## <Table of Contents>

|          |  |    |
|----------|--|----|
| 1.       | About ASTER/PALSAR Unified Search.....                       | 1  |
| 1.1.     | What's ASTER/PALSAR Unified Search?.....                     | 1  |
| 1.2.     | Access to ASTER/PALSAR Unified Search site .....             | 1  |
| 1.3.     | Definitions.....   | 2  |
| 1.4.     | Services Provided at ASTER/PALSAR Unified Search Site.....   | 3  |
| 1.4.1.   | Data Products Search Service.....                            | 3  |
| 1.4.1.1. | Inventory Search .....                                       | 3  |
| 1.4.1.2. | Granule ID Search.....                                       | 3  |
| 1.4.1.3. | Interferometry Pair Search .....                             | 3  |
| 1.4.1.4. | Matching Scenes Search .....                                 | 4  |
| 1.4.2.   | Data Product Order Service .....                             | 4  |
| 2.       | Operation Procedures .....                                   | 4  |
| 2.1.     | Outline of Top Page of ASTER/PALSAR Unified Search Site..... | 4  |
| 2.2.     | User Registration .....                                      | 6  |
| 2.2.2.   | Apply for PALSAR User Registration.....                      | 7  |
| 2.3.     | User Certification .....                                     | 9  |
| 2.3.1.   | Login as an ASTER User .....                                 | 9  |
| 2.3.2.   | Login as a PALSAR User.....                                  | 11 |
| 2.3.     | Display ASTER/PALSAR Unified Search Screen.....              | 13 |
| 2.5.     | Search Data Products .....                                   | 15 |
| 2.5.1.   | Perform Inventory Search .....                               | 16 |
| 2.5.1.1. | Set ASTER/PALSAR Common Search Conditions.....               | 19 |
| 2.5.1.2. | Set Specific Search Conditions for ASTER.....                | 22 |
| 2.5.1.3. | Set Specific Search Conditions for PALSAR.....               | 24 |
| 2.5.1.4. | Start Search .....   | 27 |
| 2.5.1.5. | Reset Search Conditions .....                                | 27 |
| 2.5.2.   | Search by Granule ID .....                                   | 27 |
| 2.5.2.1. | Specify Granule ID .....                                     | 28 |
| 2.5.2.2. | Perform Search.....  | 28 |
| 2.5.2.3. | Reset Search Conditions .....                                | 29 |
| 2.5.3.   | Search Interferometry Pair .....                             | 29 |
| 2.5.3.1. | Search Interferometry pair by Master Image Granule ID.....   | 29 |
| 2.5.3.2. | Search Interferometry Pair by Specifying AOI .....           | 31 |

|         |  |    |
|---------|--|----|
| 2.5.3.3 | Perform Search .....                                       | 33 |
| 2.5.3.4 | Reset Search Conditions .....                              | 33 |
| 2.6.    | Confirm Data Product Search Result .....                   | 33 |
| 2.6.1.  | Select Scenes in Search Result .....                       | 36 |
| 2.6.2.  | Display Browse Image .....                                 | 37 |
| 2.6.3.  | Detailed Display and Simple Display of Search Result ..... | 38 |
| 2.6.4.  | Display/Non-Display Scenes on Map .....                    | 39 |
| 2.6.5.  | Display Detailed Information on Data Product .....         | 39 |
| 2.6.6.  | Put Scenes into Cart .....                                 | 46 |
| 2.6.7.  | Display Complete List of Search Result .....               | 48 |
| 2.6.8.  | Download Search Result .....                               | 49 |
| 2.6.9.  | Display Browse list .....                                  | 50 |
| 2.6.10. | Search Scenes Covering the Same Area .....                 | 55 |
| 2.6.11. | Download AOI Search Result .....                           | 61 |
| 2.7.    | Order Data Product .....                                   | 62 |
| 2.7.1.  | Order ASTER Data Product .....                             | 62 |
| 2.7.2.  | Order PALSAR Data Products .....                           | 62 |
| 3.      | Operations on Map .....                                    | 63 |
| 3.1.    | Display Latitude and Longitude of Mouse Position .....     | 63 |
| 3.2.    | Zoom-in and Zoom-out .....                                 | 64 |
| 3.3.    | Move Map Area on Screen .....                              | 65 |
| 3.4.    | Select Map Projection .....                                | 66 |
| 3.5.    | Specify Search Area in Rectangle .....                     | 68 |
| 3.6.    | Specify Search Area in Polygon .....                       | 69 |
| 3.7.    | Switch Layers .....  | 70 |
| 3.8.    | Display Background Images in Time Series Order .....       | 74 |



## 1. About ASTER/PALSAR Unified Search

### 1.1. What's ASTER/PALSAR Unified Search?

[ASTER/PALSAR Unified Search] offers services to search and order ASTER data products and PALSAR data products together on the Web.

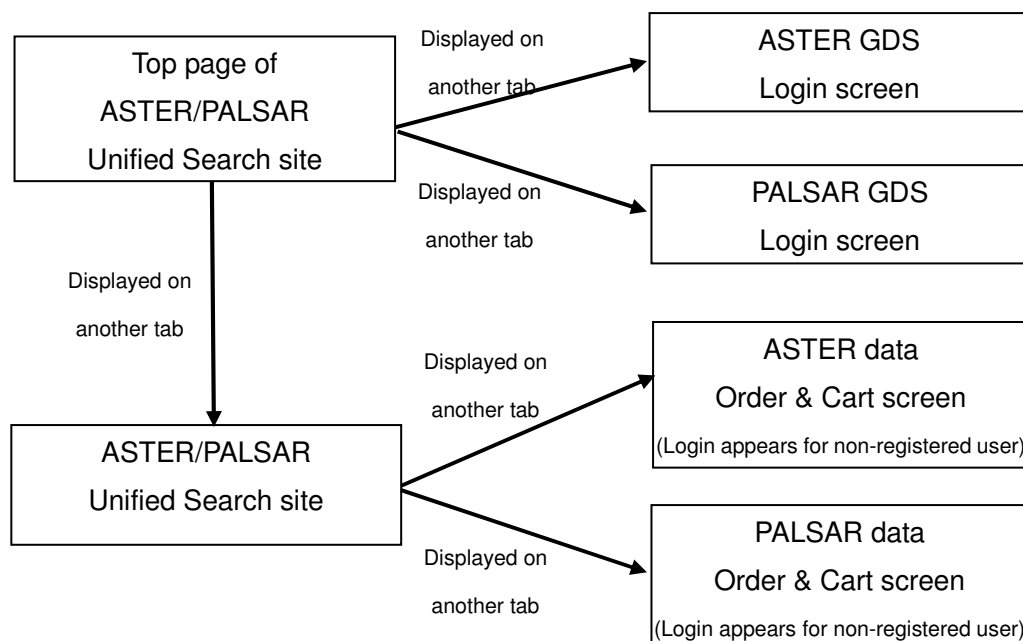
The recommended Web browsers for [ASTER/PALSAR Unified Search] are Internet Explorer 7.0 or later and Fire Fox 12.0 or later.

### 1.2. Access to ASTER/PALSAR Unified Search site

Top page of ASTER/PALSAR Unified Search site is accessible from the below URL.

<http://gds.ersdac.jspacesystems.or.jp/?lang=en>

Structure of the top page is described as below. Login screen and Order & Cart screen are in Product Order site of ASTER GDS and PALSAR GDS respectively.



**Fig. 1.2-1 Structure of ASTER/PALSAR Unified Search site**

User accounts obtained at User Registration site of ASTER and/or PALSAR GDS can be used at this Unified Search site. However, to order ASTER data products, user account for ASTER is required, and to order PALSAR data products user account for PALSAR is required.

To display mosaic images on map as background layer, it is required to login using either

user account. For mosaic images, detailed description is provided in [3.7 Switch layers].

### **1.3. Definitions**

#### **■ASTER L1A Product**

ASTER L1A product is generated by applying realignment processing to ASTER observation data. Geometric and radiometric correction coefficients including SWIR parallax correction and inter-telescope miss-registration correction are appended. But these corrections are not applied to the image data.

#### **■PALSAR L0 Virtual Scene**

PALSAR L0 virtual scene is the theoretically framed scene coverage on the earth surface. The coverage is calculated from observation time and orbit information of raw data (level 0 data).

#### **■PALSAR L1.0 Virtual Scene**

PALSAR L1.0 virtual scene is the theoretically framed scene by applying data editing such as bit realignment (L1.0 processing) to generate L1.0 product. SAR recovery processing is not yet applied to L1.0 product. In the process of generating L1.0, browse image of the L1.0 virtual scene is created. Orbit information to be used for L1.0 processing is High Accuracy Orbit Information, Orbit Determination Value, GPSR, and Estimated Orbit in descending order of accuracy. The most accurate orbit information held in PALSAR GDS at the time of processing is used.

#### **■Inventory**

Inventory is the catalog information on each scene, such as observation time, geolocation, cloud coverage for ASTER, and quality assurance of image data. Inventory information on the generated products is stored and managed in the database. By inventory search described in later part, inventory information managed at GDS can be retrieved under the specified search conditions.

#### **■Granule**

Granule is the smallest aggregation of data for observation to be stored, managed, and delivered at GDS. Each scene has a granule ID to identify its corresponding inventory.

#### ■Interferometry Processing

This processing is applied to SAR data in order to measure terrain and extract change of terrain by interfering two data of the same area which were observed on different date and time in the same conditions.

### **1.4. Services Provided at ASTER/PALSAR Unified Search Site**

ASTER/PALSAR Unified Search site provides the following services.

#### **1.4.1. Data Products Search Service**

Data product search service provides simultaneous search for ASTER data product (L1A scene) and PALSAR data products (L0 virtual scene and L1.0 virtual scene).

Data product search is performed by the below methods.

##### **1.4.1.1. Inventory Search**

Products can be searched by specifying inventory information such as observation time and area as search conditions. The products to be retrieved are L1A product for ASTER, and L0 virtual scene and L1.0 virtual scene for PALSAR. ASTER and PALSAR scenes are cross-searchable.

After selecting scenes to order from the search result, the selected scenes are put into Cart.

##### **1.4.1.2. Granule ID Search**

Products can be searched by specifying granule IDs. The products to be retrieved are L1A product for ASTER, and L0 virtual scenes, L1.0 virtual scenes, and processed products for PALSAR. Although granule IDs for ASTER processed products can also be specified, the search result is for L1A only. More than one granule ID and Granule IDs for both ASTER and PALSAR scenes are searchable at one time.

After selecting scenes to order from the search result, the selected scenes are put into Cart (excluding PALSAR processed products).

##### **1.4.1.3. Interferometry Pair Search**

Interferometry pair search is for PALSAR L0 virtual scene and L1.0 virtual scene only.

This search has two types of search methods; Master Image Granule ID and AOI.

Master Granule ID search requires to specify a granule ID for master image and to set search conditions for the data to be used for interferometry processing (slave image). Slave images which have the same path number, row number, and off-nadir angle as the

master image and match the specified search conditions are retrieved. The scenes to order can be selected from the search result and put into Cart.

AOI search requires to set the search conditions to collect scenes which can be master image and slave image by specifying the target area (AOI) on map. Firstly, virtual scenes to match the search conditions are retrieved. Secondly, the retrieved virtual scenes are divided in groups having the matching path number, row number, and off-nadir angle. Thirdly, a scene in the group is considered as master image and others as slave images to calculate the perpendicular baseline (Bperp) between the master image and slave images. This processing is applied to all the scenes in the group considering all the scenes as master image. Lastly, master images whose perpendicular baseline to the slave images is shorter than the specified value are retrieved as search result. Information on the retrieved interferometry pairs can be downloaded in CSV file. But, the search result retrieved through this search method cannot be put into Cart.

#### **1.4.1.4. Matching Scenes Search**

ASTER and PALSAR scenes, which include the center point of a base scene selected from search result in their scene coverage, can be searched. Observation mode for ASTER and PALSAR and cloud coverage for ASTER can be specified as search condition individually to perform a search.

In this search method, search starts from the search result list only, which is different from other search methods.

#### **1.4.2. Data Product Order Service**

Scenes retrieved through Data Product Search Service can be put into cart and ordered. Processing parameters for each product are specified in the ordering process to request higher level products.

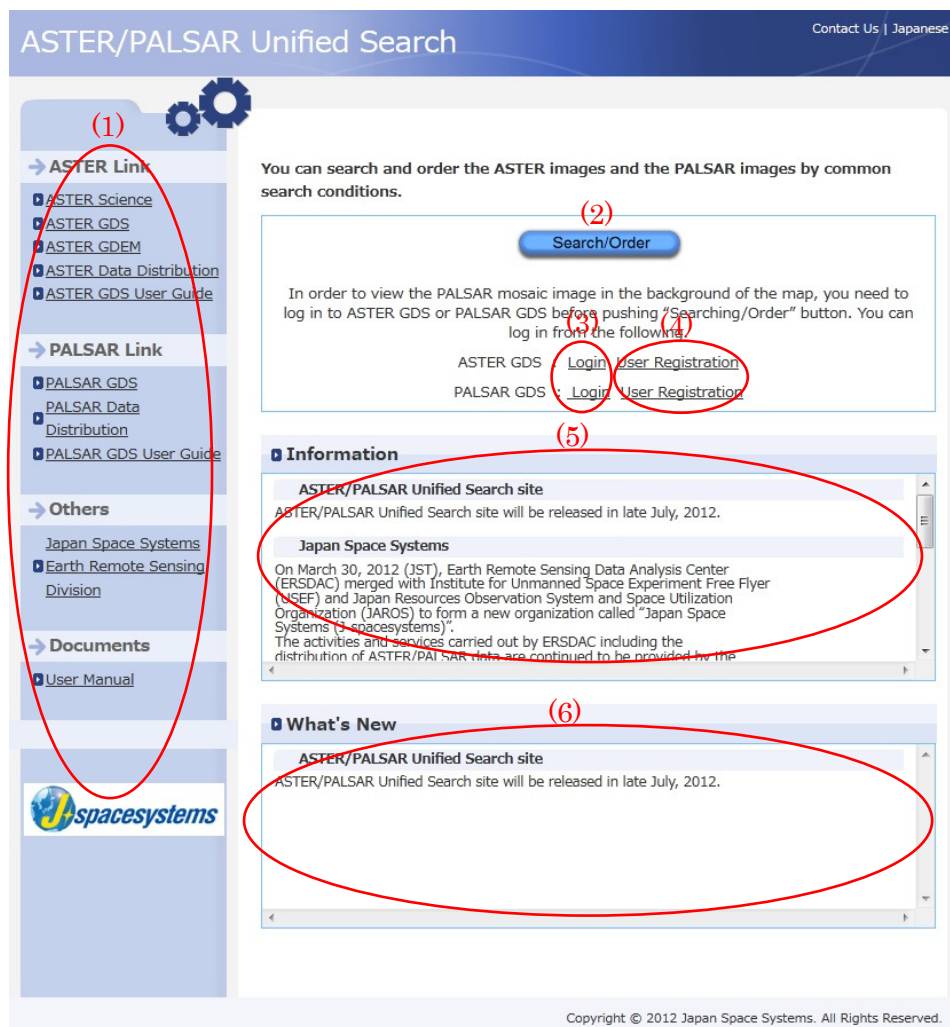
The service after putting scenes in cart is provided on Product Order site of ASTER GDS and PALSAR GDS respectively.

User certification on ASTER GDS is required to order ASTER products and user certification on PALSAR GDS to order PALSAR products.

## **2. Operation Procedures**

### **2.1. Outline of Top Page of ASTER/PALSAR Unified Search Site**

The top page of ASTER/PALSAR Unified Search site is described below.



**Fig. 2.1-1 Top page of ASTER/PALSAR Unified Search site**

**Table 2.1-1 Contents on top page of ASTER/PALSAR Unified Search site**

| No. | Contents                 | Description  |
|-----|--------------------------|--|
| (1) | Links on side menu       | Links to ASTER and PALSAR-related pages and User Guide for the unified search site     |
| (2) | [Search/Order] button    | ASTER/PALSAR Unified Search page appears on a new tab by clicking this button          |
| (3) | [Login] link             | Login page for ASTER GDS and PALSAR GDS appears on another tab when clicking this link |
| (4) | [User Registration] link | User Registration page for ASTER   |

|     |             |  |
|-----|-------------|--|
|     |             | GDS and PALSAR GDS appear on another tab when clicking this link |
| (5) | Information | Information on ASTER/PALSAR Unified Search site is announced     |
| (6) | What's New  | Latest information on ASTER/PALSAR Unified Search site is posted |

## 2.2 User Registration

### 2.2.1. Apply for ASTER User Registration

Click [User Registration] of ASTER GDS on the top page of ASTER/PALSAR Unified Search site.



Fig. 2.2.1-1 Click [User Registration] of ASTER GDS

When the application form for ASTER GDS User Registration appears on a new tab, apply for user registration following the instructions on the screen.

For details, see [User Registration] in top menu on the below URL.

<http://ims.aster.ersdac.jp/spaceSystems.or.jp/ims/html/Help/HelpMenu.html>

User's registration application procedure for general users is performed.  
In the case of a general user, an order for processing and distribution of a product  
can be placed. Those who want to request new observation, please access to [here](#).

**Agreement of "Requirements for ASTER Data Distribution"**

Please read in agreement "Requirements for ASTER Data Distribution", the documents  
that specify all restrictions and regulations in relation to ASTER Data Distribution.

**ASTER Product Guide** ◀ **Service Center**

■ Agreement for Distribution and Use of ASTER Products March 30, 2012

**1. General Provisions**  
This Agreement shall define applicable procedures, permitted uses and restrictions at  
the time that Earth Remote Sensing Division of Japan Space Systems (hereinafter  
referred to as J-spacesystems) provides the ASTER Products, which are produced  
at J-spacesystems ASTER Ground Data Systems (hereinafter referred to as ASTER  
GDS) from the data acquired by the Advanced Spaceborne Thermal Emission and  
Reflection radiometer (hereinafter referred to as ASTER) onboard Terra Spacecraft  
by National Aeronautics and Space Administration (NASA), to those who wish to use  
them. This Agreement shall apply to any relationship between J-spacesystems and  
the ASTER products user. No holding of agreement or expression of objection of this  
Agreement by the ASTER products user shall be effective.

**2. Definitions**  
"ASTER Products"

**ERSDAC**  
Earth Remote Sensing Data Analysis Center

**Fig. 2.2.1-2 ASTER GDS User Registration Application screen**

## **2.2.2. Apply for PALSAR User Registration**

Click [User Registration] of PALSAR GDS on the top page of ASTER/PALSAR Unified Search site.



**Fig. 2.2.2-1 Click [User Registration] of PALSAR GDS**

When the application form for PALSAR GDS User Registration appears on a new tab, apply for user registration following the instructions on the screen.

For details, see the below URL.

[https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1\\_e/UserRegist\\_e/top\\_regist\\_e.html](https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1_e/UserRegist_e/top_regist_e.html)



Home Search Product- Request(DPR) Directory Information Observation Status Help Sign in User Registration

## User Registration

User Registration for general users (users as followed) is performed.  
A user will take product ordering and distributing services after the registration completed. He/She, however, is not permitted to request an observation.

### Agreement for Distribution and Use of PALSAR Products

Read "Agreement for Distribution and Use of PALSAR Products" well.  
Click "Agree" button if you can agree with the contract.

March 30, 2012

**Agreement for Distribution and Use of PALSAR Products**

**1. General Provisions**  
This Agreement shall define applicable procedures, permitted uses and restrictions at the time that Earth Remote Sensing Division of Japan Space Systems (hereinafter referred to as J-space systems) provides the PALSAR Products, which are produced at J-space systems PALSAR Ground Data Systems (hereinafter referred to as PALSAR GDS) from the data acquired by the Phased Array type L-band Synthetic Aperture Radar (hereinafter referred to as PALSAR) onboard the Advanced Land Observing Satellite (ALOS) by the Japan Aerospace Exploration Agency (JAXA), to those who wish to use them. This Agreement shall establish a relationship between

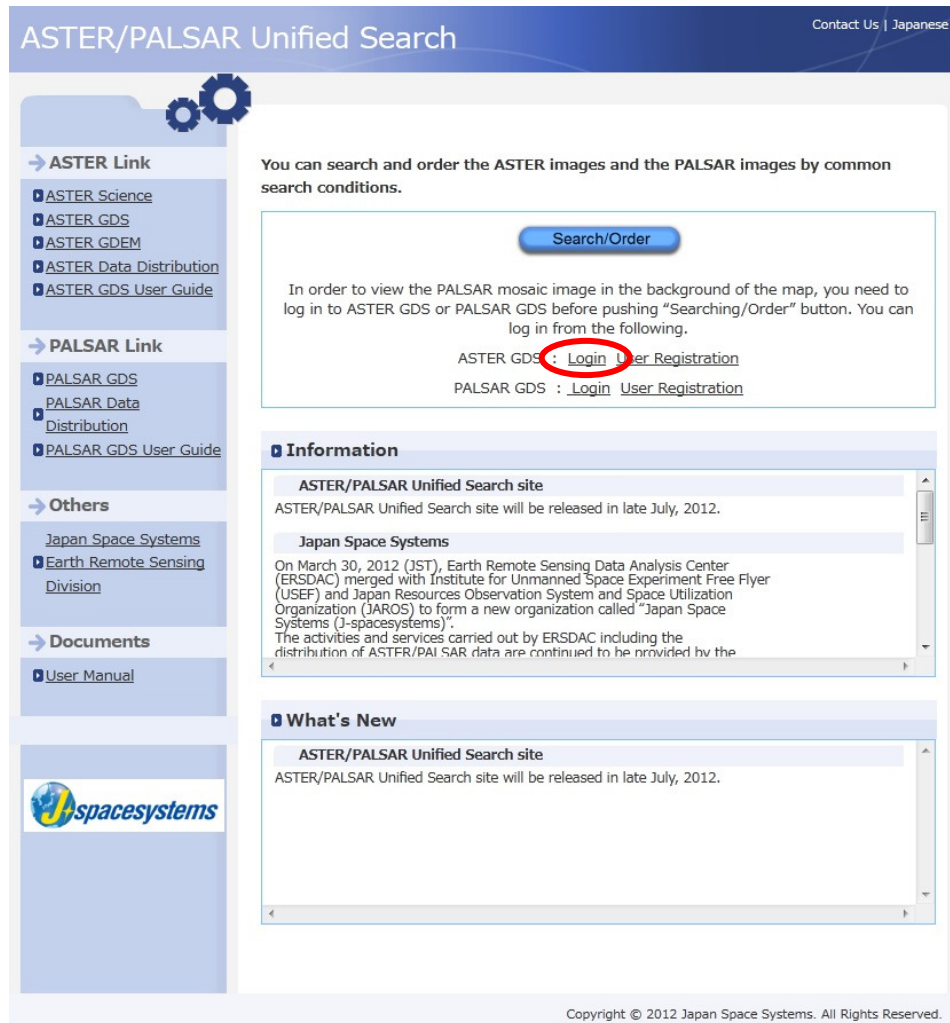
Copyright (c) 2012 Japan Space Systems. All rights reserved

**Fig. 2.2.2-2 PALSAR GDS User Registration Application screen**

## 2.3. User Certification

### 2.3.1. Login as an ASTER User

Click [User Certification] of ASTER GDS on the top page of ASTER/PALSAR Unified Search site.



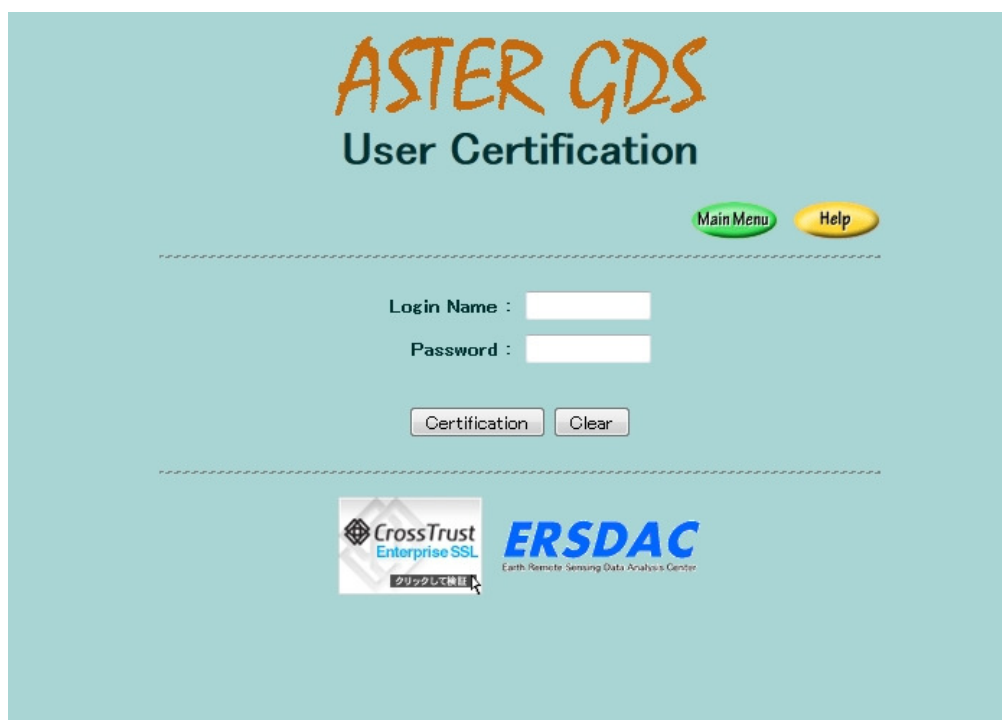
**Fig. 2.3.1-1 Click [Login] of ASTER GDS**

When ASTER GDS User Certification screen appears on a new tab, login following the instructions on the screen.

For details, see [User Certification] in top menu on the below URL.

<http://ims.aster.ersdac.jspacesystems.or.jp/ims/html/Help/HelpMenu.html>

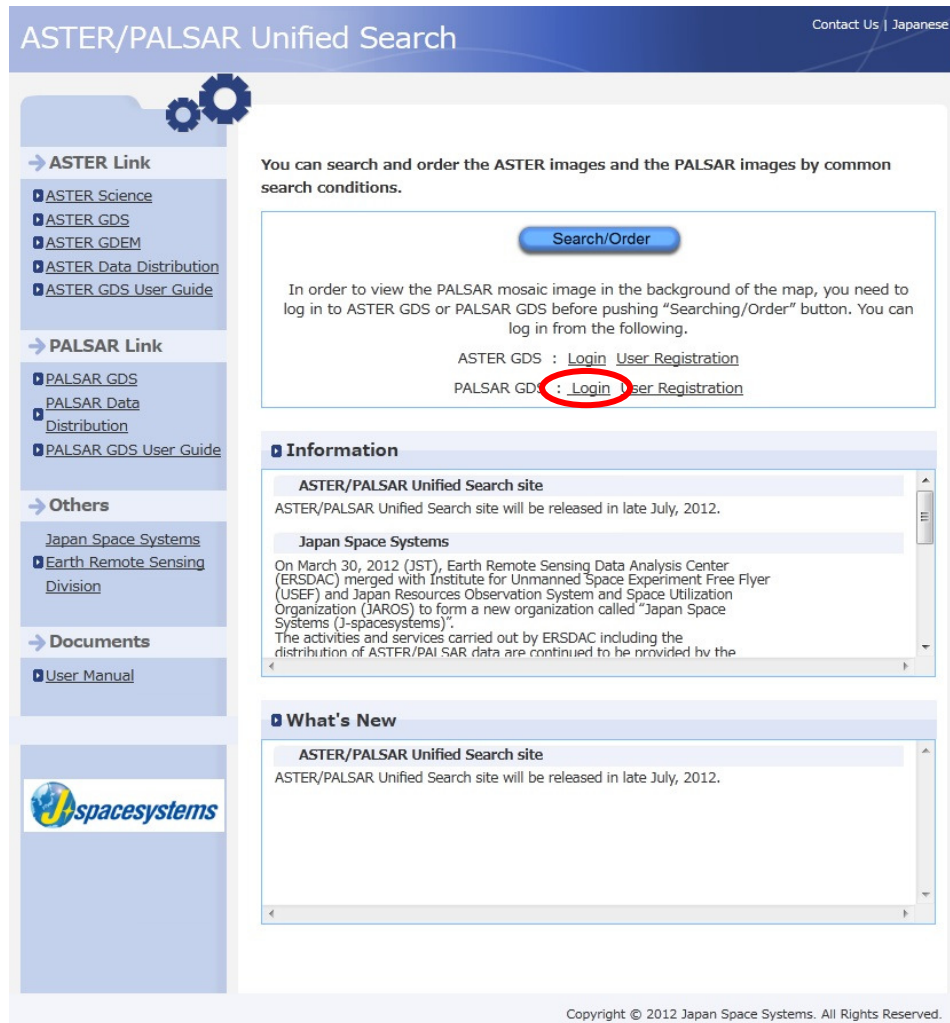
User certification is required to order ASTER products. Also, user certification as an ASTER or PALSAR user is required to use display function of mosaic images on map.



**Fig. 2.3.1-2 ASTER GDS User Certification page**

### **2.3.2. Login as a PALSAR User**

Click [User Certification] of PALSAR GDS on the top page of ASTER/PALSAR Unified Search site.



**Fig. 2.3.2-1 Click [Login] of PALSAR GDS**

When PALSAR GDS User Certification screen appears on a new tab, login following the instructions on the screen.

For details, see the below URL.

[https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1\\_e/UserCertify\\_e/top\\_cer\\_e.html](https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1_e/UserCertify_e/top_cer_e.html)

User certification is required to order PALSAR products. Also, user certification as an ASTER or PALSAR user is required to use display function of mosaic images on map.

|      |                              |                       |                    |      |         |                   |
|------|------------------------------|-----------------------|--------------------|------|---------|-------------------|
| Home | Search Product- Request(DPR) | Directory Information | Observation Status | Help | Sign in | User Registration |
|------|------------------------------|-----------------------|--------------------|------|---------|-------------------|

## User Certification

**NOTICE**

If you wish to utilize services limited for registered users as indicated below, please perform user certification here first.

- Update User Profile : Confirm User Profile, Update User Profile, Change Password
- DPR : DPR Submit/Cancel
- DAR : Requester's xAR Search, DAR Submit, DAR Modification

**Input Field**

Login Name :

Password :

Do you want to make a new account? [Start Here.](#)

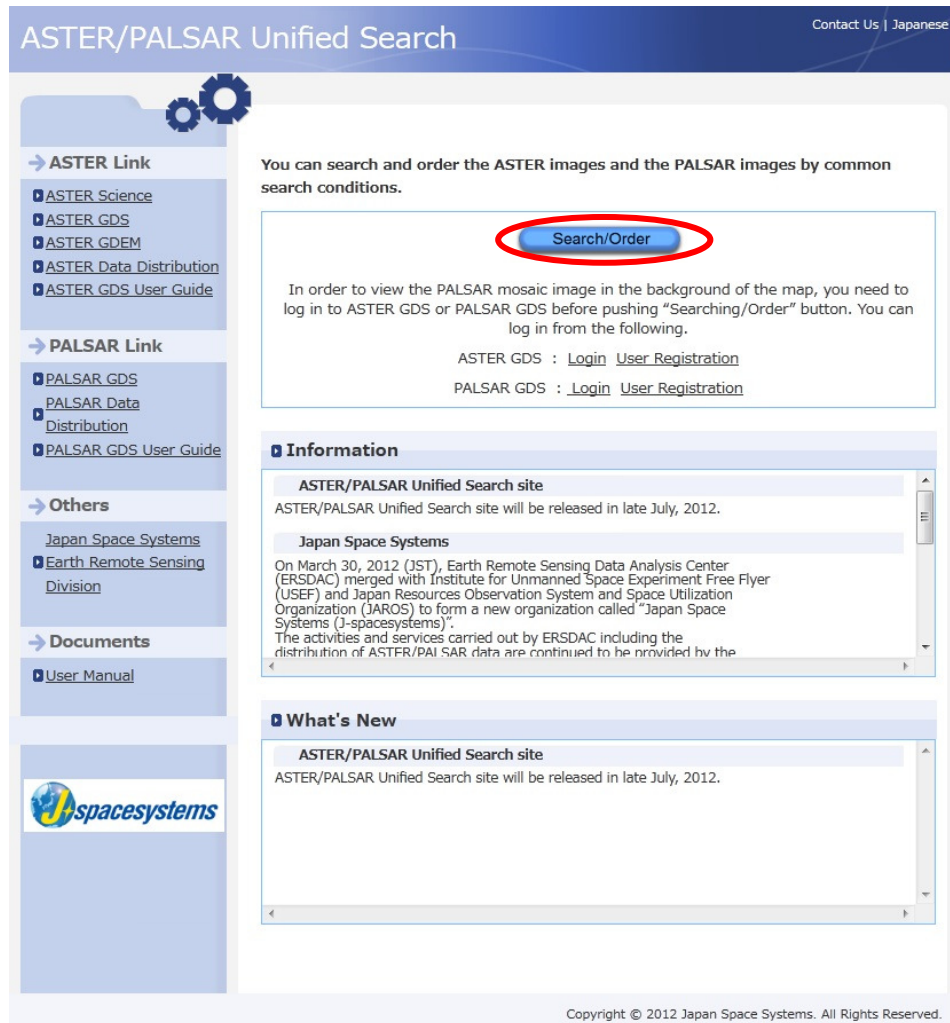
---

Copyright (c) 2012 Japan Space Systems. All rights reserved

**Fig. 2.3.2-2 PALSAR GDS User Certification screen**

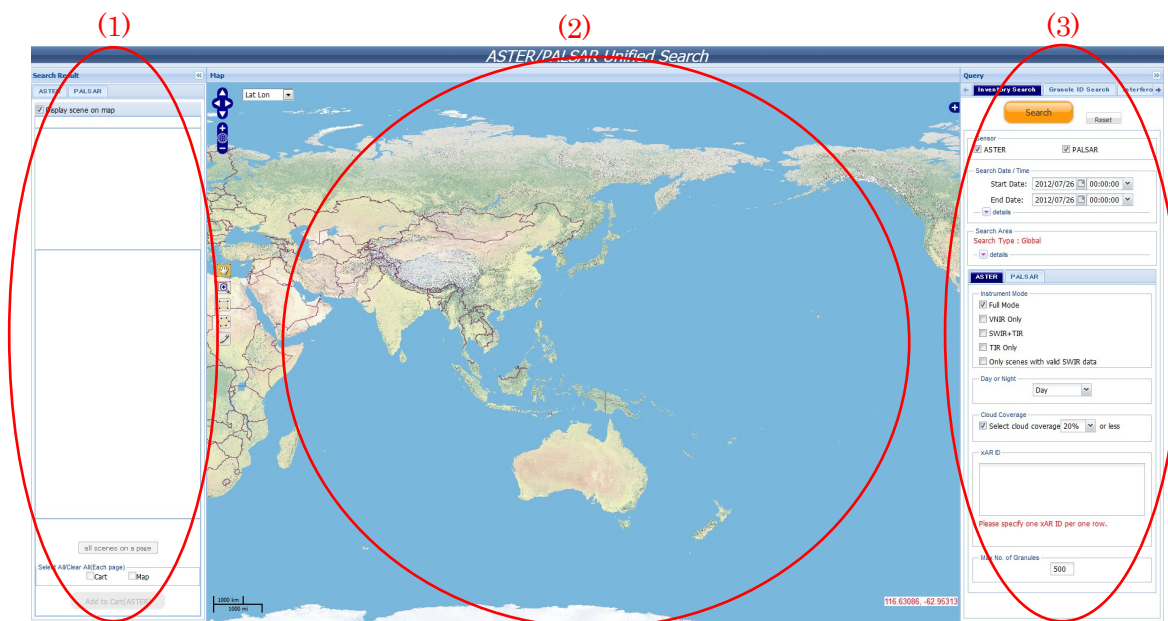
## 2.3 Display ASTER/PALSAR Unified Search Screen

To search ASTER and PLASAR products, confirm search result, and add the selected products to cart, click [Search/Order] button on the top page of ASTER/PALSAR Unified Search site.





**Fig. 2.4-1 Click [Search/Order] button**

ASTER/PALSAR Product Unified Search page appears to search and order products. Outline of this page is described below.






**Fig. 2.4-2 ASTER/PALSAR unified search screen**

**Table 2.4-1 Contents of ASTER/PALSAR Unified Search screen**

| No. | Contents                         | Description   |
|-----|----------------------------------|---|
| (1) | Field to show search result      | Search result is displayed.<br> button switches display or non-display |
| (2) | Map area                         | Map is displayed  |
| (3) | Field to input search conditions | Search conditions are set.<br> button switches display or non-display  |

## 2.5. Search Data Products

Start search for ASTER and PALSAR data products on the unified search site. For switching search method, use the tab    on top of the field to input search conditions.

The figure displays three screenshots of the 'Query' interface, each showing a different search tab. The first screenshot shows the 'Inventory Search' tab with various search criteria like Sensor (ASTER, PALSAR), Search Date / Time, Search Area, Instrument Mode, Day or Night, Cloud Coverage, xAR ID, and Max No. of Granules. The second screenshot shows the 'Granule ID Search' tab with a large empty area for the Granule ID list and a red instruction: 'Please specify one Granule ID per one row.' The third screenshot shows the 'Interferometry Pair Search' tab with search criteria like Master Image Granule ID, Search Date / Time, Granule ID for Master data, Perpendicular baseline(Bperp), and Instrument Mode(Slave).

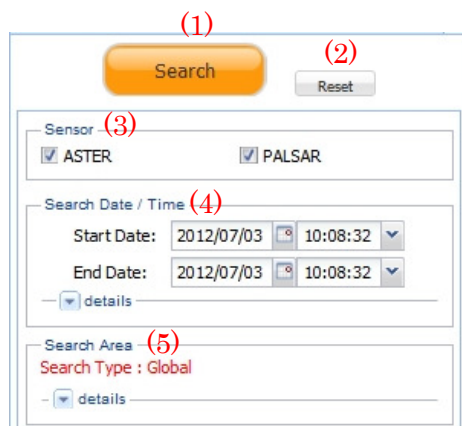
**Fig. 2.5-1 Inventory Search tab, Granule ID Search tab, and Interferometry Pair Search tab from the left**

Each search method is explained below.

### 2.5.1 Perform Inventory Search

Select [Inventory Search] tab in the field to input search conditions. Inventory Search tab consists of 3 sections; the first section is for common search conditions, the second for ASTER-specific search conditions, and the third for PALSAR-specific search conditions.





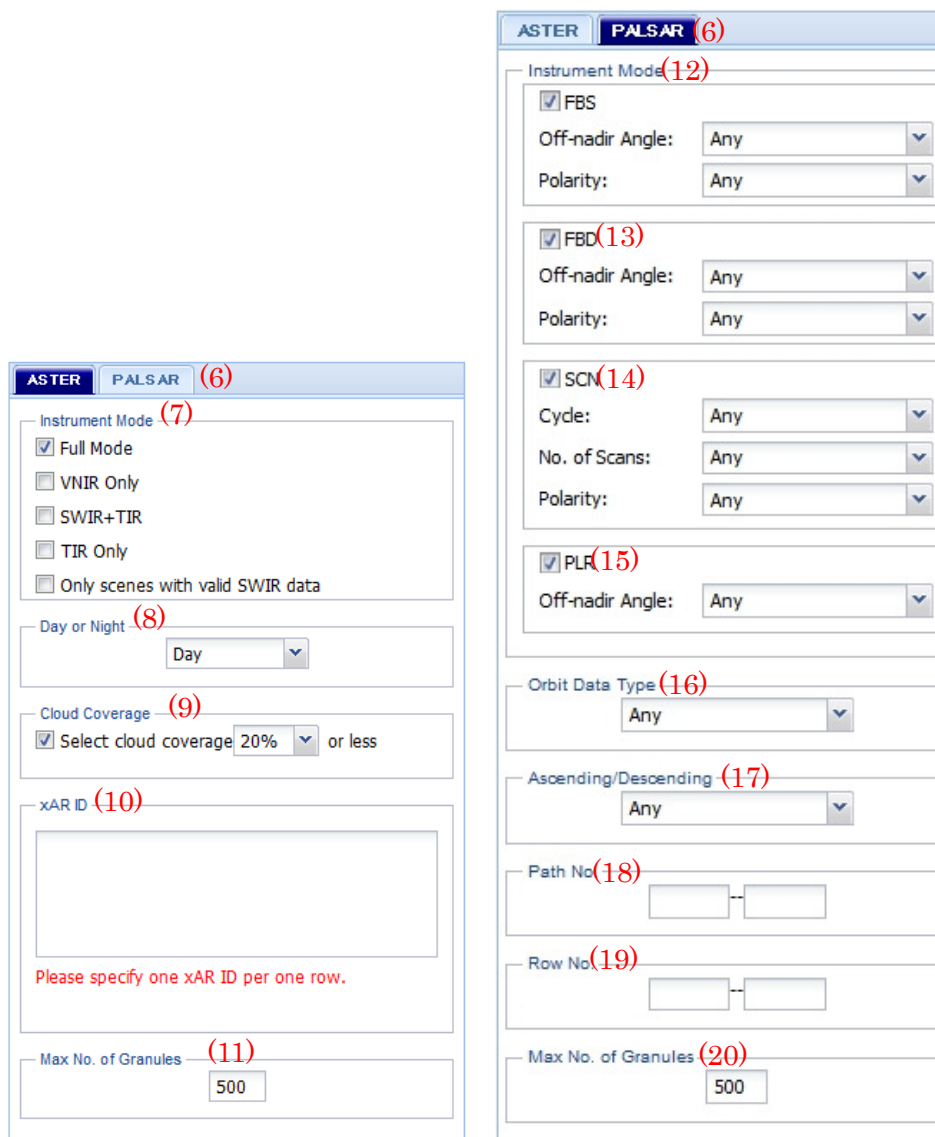
Search (1) Reset (2)

Sensor (3)  
☒ ASTER ☒ PALSAR

Search Date / Time (4)  
 Start Date: 2012/07/03 10:08:32  
 End Date: 2012/07/03 10:08:32  
[details](#)

Search Area (5)  
 Search Type : Global  
[details](#)

Fig. 2.5.1-1 Input field of common search conditions



ASTER PALSAR (6)

Instrument Mode (7)  
☒ Full Mode  
☐ VNIR Only  
☐ SWIR+TIR  
☐ TIR Only  
☐ Only scenes with valid SWIR data

Day or Night (8)  
 Day

Cloud Coverage (9)  
☒ Select cloud coverage 20% or less

xAR ID (10)  
 Please specify one xAR ID per one row.

Max No. of Granules (11)  
 500

Instrument Mode (12)  
☒ FBS  
 Off-nadir Angle: Any  
 Polarity: Any

☒ FBD (13)  
 Off-nadir Angle: Any  
 Polarity: Any

☒ SCN (14)  
 Cycle: Any  
 No. of Scans: Any  
 Polarity: Any

☒ PLR (15)  
 Off-nadir Angle: Any

Orbit Data Type (16)  
 Any

Ascending/Descending (17)  
 Any

Path No (18)  
 --



Row No (19)  
 --

Max No. of Granules (20)  
 500

Fig. 2.5.1-2 Input field of ASTER-specific search conditions (left),

**Input field of PALSAR-specific search conditions (right)**

**Table 2.5.1-1 Contents of Inventory Search tab**

| No.  | Contents                   | Description   |
|------|----------------------------|---|
| (1)  | [Search] button            | Search is performed under the specified search conditions.  |
| (2)  | [Reset] button             | Search conditions return to default.  |
| (3)  | Sensor                     | Sensor type is specified  |
| (4)  | Search Date/Time           | Search period is set<br> button shows the field to set detailed conditions |
| (5)  | Search Area                |  button shows the field to specify area by coordinates.                    |
| (6)  | ASTER/PALSAR tab           | Display the field of ASTER and PALSAR-specific search conditions are switched.  |
| (7)  | ASTER: Instrument mode     | ASTER observation mode is specified.  |
| (8)  | ASTER: Day or Night        | Day-time or night-time observation for ASTER is specified   |
| (9)  | ASTER: Cloud Coverage      | Cloud amount for ASTER is specified   |
| (10) | ASTER: xAR ID              | ASTER's xAR ID is specified   |
| (11) | ASTER: Max No. of Granules | Maximum number of ASTER scenes to be retrieved is set   |
| (12) | PALSAR: FBS                | Conditions for PALSAR Fine Beam Single Polarisation (FBS) observation mode are specified  |
| (13) | PALSAR: FBD                | Conditions for PALSAR Fine Beam Dual Polarisation (FBD) observation mode are specified  |
| (14) | PALSAR: SCN                | Conditions for PALSAR ScanSAR (SCN) observation mode are specified.   |
| (15) | PALSAR: PLR                | Condition for PALSAR Full Polaimetry (PLR) observation mode is specified.   |
| (16) | PALSAR: Orbit Data Type    | PALSAR's orbit data type is specified.  |

|      |                                 |  |
|------|---------------------------------|--|
| (17) | PALSAR:<br>Ascending/Descending | Orbital direction of PALSAR is specified               |
| (18) | PALSAR: Path No.                | PALSAR's path number is specified.                     |
| (19) | PALSAR: Row No.                 | PALSAR's row number is specified.                      |
| (20) | PALSAR: Max No. of<br>Granules  | Maximum number of PALSAR scenes to be retrieved is set |

After setting each search condition and clicking [Search] button, data search in the specified conditions is performed. If both ASTER and PALSAR are selected in [Sensor] section, search for both ASTER and PALSAR data products is performed.

How to specify each search condition is explained below.

#### 2.5.1.1 Set ASTER/PALSAR Common Search Conditions

Set the search conditions commonly used for ASTER and PALSAR.

Fig. 2.5.1.1-1 Input field of ASTER/PALSAR common search conditions

##### <Sensor>

Specify both ASTER and PALSAR or select one as target sensor.

##### <Search Date/Time>

Set the search period. Choose dates from calendar or directly enter the dates. When clicking [details] button, the field to set more details appears.

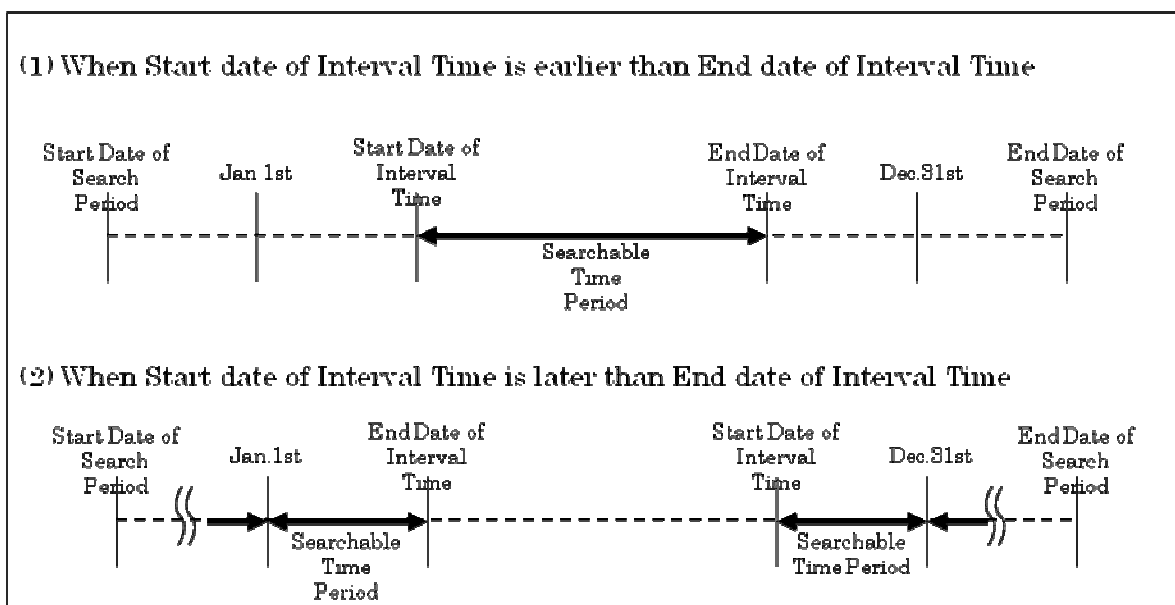
**Fig. 2.5.1.1-2 Click [details]**

**Fig. 2.5.1.1-3 Input field of more detailed search period**

When [All] is selected, period is not reflected to search conditions.

When [Continuous Time Range] is selected, Start Date and End Date are required.

When [Annually Repeating Time Period] is checked, the specified interval of time (the same interval of time for each year during the specified period) is searched. Start date and end date for this interval of time period are required to input in the form of MM/DD. The relation between interval time's start/end date and search period's start/end date is described below.



**Fig. 2.5.1.1-4 Relation between interval of time and search period**

#### <Search Area>

A search area can generally be specified in rectangle or polygon on the map by mouse

operation. For details on how to specify a search area on map see [3.5 Specify Search Area in Rectangle] and [3.6 Specify Search Area in Polygon].

In addition to mouse operation, a search area can be specified by coordinates values. Click [details] button to display the field of specifying search area, and select one from [Global], [Rectangle], and [polygon].

Search Area

Search Type : Global

details

☒ Global ☐ Rectangle ☐ Polygon

Top Left Corner Lat Lon

90 -180

Bottom Right Corner Lat Lon

-90 180

Polygon:

format: Decima

Download Upload Show

**Fig. 2.5.1.1-5 Input filed of Specify search area**

**(a) Global Search Type**

Search is performed globally.

**(b) Rectangle Search Type**

Enter latitudes and longitudes of the rectangular search area in [Top Left Corner Lat Lon] and [Bottom Right Corner Lat Lon]. [Decimal Degree] or [Degree Min Sec] is selectable as input format.

Click [Show] button to display the specified area on the map.

**(c) Polygon Search Type**

Input latitude and longitude of each vertex of the polygon in [Polygon] field. Enter a

vertex per line, in the order of [latitude, longitude]. [Decimal Degree] or [Degree Min Sec] is selectable.

Information of the specified polygon can be downloaded and uploaded in KMZ format by [Download] and [Upload] buttons.

The specified polygon can be displayed on the map by [Show] button.

### 2.5.1.2 Set Specific Search Conditions for ASTER

Select [ASTER] tab to set specific search conditions for ASTER. Only when [ASTER] is checked in [Sensor] field, it is possible to set search conditions on [ASTER] tab.

ASTER PALSAR

Instrument Mode

☒ Full Mode

☐ VNIR Only

☐ SWIR+TIR

☐ TIR Only

☐ Only scenes with valid SWIR data

Day or Night

Day

Cloud Coverage

☒ Select cloud coverage 20% or less

xAR ID

Please specify one xAR ID per one row.

Max No. of Granules

500

Fig. 2.5.1.2-1 Input field of ASTER-specific search conditions

#### <Instrument Mode>

Select observation mode from [Full Mode], [VNIR Only], [SWIR+TIR], [TIR Only], and [Only scenes with valid SWIR data]. More than one observation mode must be selected.

ASTER SWIR sensor has not been acquiring valid data since April 2007. When [Only scenes with valid SWIR data] is checked, a search is performed in the condition of [Full Mode] and [SWIR+TIR], and only the scenes observed before April 1, 2007 are retrieved.

For detail of each observation mode, see the below URL.

[http://www.science.aster.ersdac.jspacesystems.or.jp/en/documnts/users\\_guide/part1/07\\_0](http://www.science.aster.ersdac.jspacesystems.or.jp/en/documnts/users_guide/part1/07_0)

[1.html](#)

**<Day or Night>**

Specify day-time and night-time observation. [Day], [Night] and [Both] are selectable.

**<Cloud Coverage>**

Set cloud amount. Check [Select cloud coverage] and select cloud percentage from the pull-down menu. Specified percentage is for the whole scene, and scenes with cloud coverage of the specified percentage or less are retrieved. If [Select cloud coverage] is not checked, cloud coverage is not reflected to the search condition.

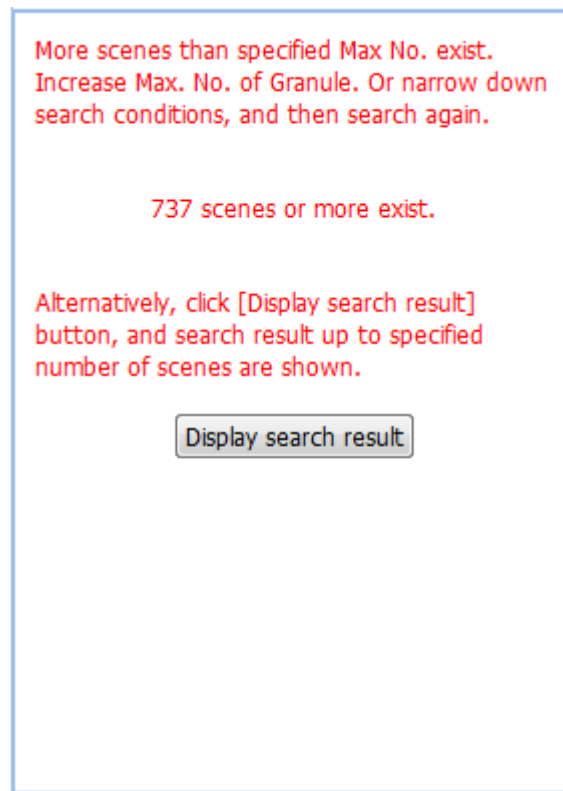
**<xAR ID>**

Specify ASTER xAR ID. The scenes acquired with the specified xAR ID are retrieved. Input a xAR ID per line to search plural IDs.

**<Max. No. of Granules>**

Specify the maximum number of granules to be retrieved for ASTER only. This number can be specified up to 500 and this is a mandatory search condition.

If the number of scenes shown in search result is over the specified maximum number of granules, narrow the search conditions such as area or period, and search again. Or, click [Display search result] on search result window. When clicking this button, the search result lists only scenes up to the specified number in order of oldness.



**Fig. 2.5.1.2-2 Case search result has more scenes than the specified Max. No. of granules**

### **2.5.1.3 Set Specific Search Conditions for PALSAR**

Select [PALSAR] tab to set specific search conditions for PALSAR. Only when [PALSAR] is checked in [Sensor] field, it is possible set search conditions on [PALSAR] tab.



| ASTER                               |     | PALSAR           |     |
|-------------------------------------|-----|------------------|-----|
| <b>Instrument Mode</b>              |     |                  |     |
| <input checked="" type="checkbox"/> | FBS | Off-nadir Angle: | Any |
|                                     |     | Polarity:        | Any |
| <input checked="" type="checkbox"/> | FBD | Off-nadir Angle: | Any |
|                                     |     | Polarity:        | Any |
| <input checked="" type="checkbox"/> | SCN | Cycle:           | Any |
|                                     |     | No. of Scans:    | Any |
|                                     |     | Polarity:        | Any |
| <input checked="" type="checkbox"/> | PLR | Off-nadir Angle: | Any |
| <b>Orbit Data Type</b>              |     |                  |     |
|                                     |     | Any              |     |
| <b>Ascending/Descending</b>         |     |                  |     |
|                                     |     | Any              |     |
| <b>Path No.</b>                     |     |                  |     |
|                                     |     |                  |     |
| <b>Row No.</b>                      |     |                  |     |
|                                     |     |                  |     |
| <b>Max No. of Granules</b>          |     |                  |     |
|                                     |     | 500              |     |

**Fig. 2.5.1.3-1 Input field of PALSAR-specific search conditions**

#### <Instrument Mode>

Specify observation mode. [Fine Beam Single polarization (FBS)], [Fine Beam Dual polarization (FBD)], [Scan SAR (SCN)], and [Full polarization (PLR)] are selectable. More than one observation mode must be selected. Also, Off-nadir Angle, Polarity (FBS and FBD only), Cycle (SCN only) and No. of Scans (SCN only) can be specified for each observation mode.

#### <Orbit Data Type>

Select one orbit data type from [Any], [High Accuracy Orbit Data], [Determined Value],

[GPSR], and [Estimated Orbit]. (If [Any] is selected, orbit data type is not reflected to search conditions)

**<Ascending/Descending>**

Select orbital direction. Select one from [Any], [Ascending], and [Descending]. (If [Any] is selected, orbital direction is not reflected to search conditions)

**<Path No.>**

Specify path number. Input positive integer number between 1 and 671 (If this field is blank, path number is not reflected to search conditions).

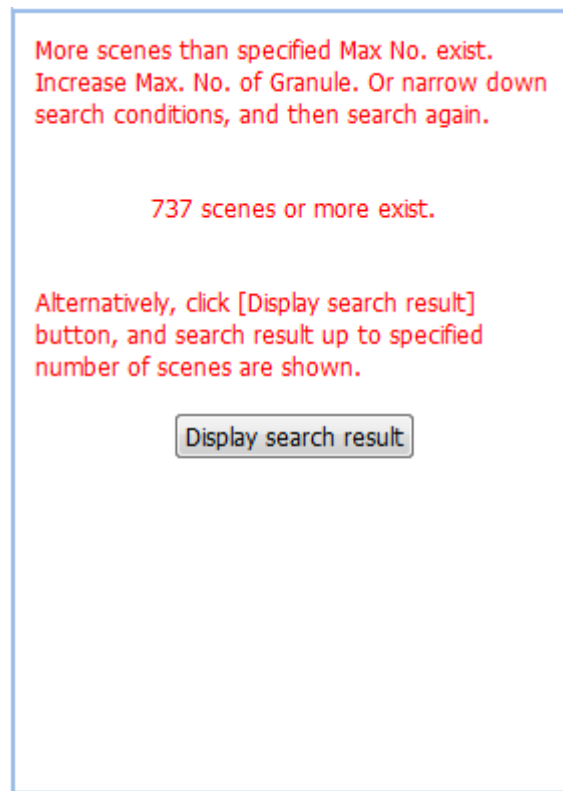
**<Row No.>**

Specify row number. Input positive integer number between 1 and 720 (If this field is blank, row number is not reflected to search conditions).

**<Max. No. of Granules>**

Specify the maximum number of scenes to be retrieved for PALSAR only. This number can be specified up to 500 and this is a mandatory search condition.

If the number of scenes shown in search result is over the specified max. number of granules, narrow the search conditions such as area or period, and search again. Or, click [Display search result] on search result window. When clicking this button, the search result lists only scenes up to the specified number in order of oldness.



**Fig. 2.5.1.3-2 Case search result has more scenes than the specified Max. No. of granules**

#### **2.5.1.4 Start Search**

After specifying each search condition, click [Search] button to start a search under the specified conditions. Search result is shown on the Search Result window from which order can be placed. For details on the Search Result window, see [2.6 Confirm Data Product Search Result].

#### **2.5.1.5 Reset Search Conditions**

Click [Reset] button and all the specified search conditions go back to the default in Inventory search.

### **2.5.2 Search by Granule ID**

Select [Granule ID Search] tab on ASTER/PALSAR Unified Search site. The details of [Granule ID Search] window are described below.

**Fig.2.5.2-1 Granule ID Search tab**

**Table 2.5.2-1 Contents of Granule ID Search tab**

| No. | Contents        | Description  |
|-----|-----------------|--|
| (1) | [Search] button | Search with the specified granule ID is performed                            |
| (2) | [Reset] button  | All the values input in the granule ID list field are deleted and made blank |
| (3) | granule ID list | Granule ID for search target is input  |

### 2.5.2.1 Specify Granule ID

Enter granule ID to search in the Granule ID list field. Input a granule ID per line when specifying more than one ID. ASTER's granule ID and PALSAR's can be specified and searched simultaneously.

### 2.5.2.2 Perform Search

After entering granule ID and click [Search] button to search the scene with the specified

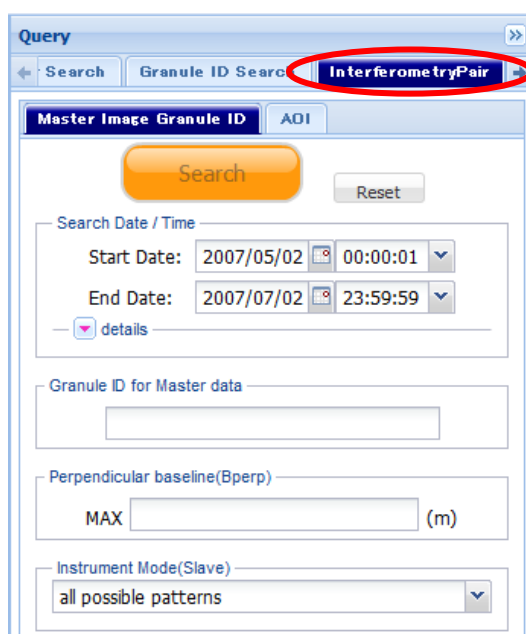
granule ID. In case of ASTER, L1A scene is retrieved, even if the granule ID of other level product is specified. Search result is shown on the Search Result window where order can be placed. For details on the Search Result window, see [2.6 Confirm Data Product Search Result].

### 2.5.2.3 Reset Search Conditions

Click [Reset] button, and all granule IDs entered in the granule ID list are deleted with this field blank.

### 2.5.3 Search Interferometry Pair

Select [Interferometry Pair] tab on ASTER/PALSAR Unified Search site.

The image shows a web-based search interface titled "Query". At the top, there are three tabs: "Search", "Granule ID Search", and "InterferometryPair". The "InterferometryPair" tab is selected and highlighted with a red circle. Below the tabs, there are two sub-tabs: "Master Image Granule ID" and "AOI". The "Master Image Granule ID" sub-tab is active. The main search area contains a large orange "Search" button and a smaller grey "Reset" button. Below these buttons, there are several input fields: "Search Date / Time" with "Start Date" (2007/05/02 00:00:01) and "End Date" (2007/07/02 23:59:59) dropdowns; a "Granule ID for Master data" text input field; a "Perpendicular baseline(Bperp)" section with a "MAX" label and a text input field followed by "(m)"; and an "Instrument Mode(Slave)" dropdown menu currently set to "all possible patterns". A "details" link is also visible near the date fields.

**Fig. 2.5.3-1 Interferometry Search tab**

Two types of interferometry pair search are available; one is [Master Image Granule ID] and the other is [AOI]. Click each tab to switch the method.

#### 2.5.3.1 Search Interferometry pair by Master Image Granule ID

Select [Master Image Granule ID] tab.

**Fig. 2.5.3.1-1 Master Image Granule ID search tab**

**Table 2.5.3.1-1 Contents of Master Image Granule ID search tab**

| No. | Contents                   | Description  |
|-----|----------------------------|--|
| (1) | [Search] button            | Search is performed under the specified search conditions.   |
| (2) | [Reset] button             | Search conditions return to the default.   |
| (3) | Search Date/Time           | Search period is set<br><input type="checkbox"/> button shows the field to set detailed conditions |
| (4) | Granule ID for Master data | Granule ID for master image is specified   |
| (5) | Perpendicular baseline     | Maximum value of perpendicular baseline is specified   |
| (6) | Instrument Mode (Slave)    | Condition on observation pattern is selected   |

**<Search Period>**

See <Search Date/Time> of [2.5.1.1 Set ASTER/PALSAR Common Search Conditions] for how to specify.

**<Granule ID for Master data>**

Enter granule ID of the product to be used as master image. Data acquired in ScanSAR mode cannot be used as master image, as this observation mode is out of Interferometry Pair search.

#### **< Perpendicular baseline (Bperp)>**

Specify the maximum value (absolute value) of the perpendicular baseline (Bperp) between the master image and slave image to be searched. Slave image with shorter perpendicular baseline than the specified value is retrieved.

#### **<Instrument Mode (Slave)>**

Set the conditions on observation patterns, which are the types of PALSAR's observation uniquely determined by combination of observation mode (FBS, FBD, PLR, SCN), number of scans (3, 4 and 5), and cycle (long, short). However, number of scans and cycle are not reflected to search conditions, as ScanSAR observation mode is out of Interferometry Pair search.

The following conditions are required for slave image to be retrieved by Interferometry Pair search.

- To have the same off-nadir angle as that of master image
- To have at least the same one polarization as the master image

Even if the observation pattern of slave image does not match that of master image, the combination of observation pattern with the common polarization exists. Therefore, either of the following options is required to specify from the drop-down menu as a search condition of slave image's observation pattern.

- Same as the master: only the same observation pattern is targeted for search
- All possible patterns: other observation patterns than master image's are targeted as well.

### **2.5.3.2 Search Interferometry Pair by Specifying AOI**

Select [AOI] tab.

**Fig. 2.5.3.2-1 AOI tab**

**Table 2.5.3.2-1 Contents of AOI tab**

| No. | Contents                | Description  |
|-----|-------------------------|--|
| (1) | [Search] button         | Search is performed under the specified search conditions.   |
| (2) | [Reset] button          | Search conditions return to the default.   |
| (3) | Search Date / Time      | Search period is set<br><input type="button" value="details"/> button shows the field to set detailed conditions |
| (4) | Perpendicular baseline  | Maximum value of perpendicular base line is specified  |
| (5) | Instrument Mode (Slave) | Condition on observation pattern is selected   |
| (6) | details                 | <input type="button" value="details"/> button shows the field to set detailed conditions                         |
| (7) | Search Area             | <input type="button" value="details"/> button shows the field to specify search area                             |

**<Search Period>**



See <Search Date/Time> of [2.5.1.1 Set ASTER/PALSAR Common Search Conditions]

#### **< Perpedicular baseline (Bperp)>**

See < Perpedicular baseline > of [2.5.3.1 Search Interferometry Pair by Master Image Granule ID] for how to specify.

#### **<Instrument Mode (Slave)>**

See < Instrument Mode (Slave) > of [2.5.3.1 Search Interferometry Pair by Master Image Granule ID] for how to specify.

#### **<Set Detailed Search Conditions by details Button>**

See [2.5.1.3 Specify Specific Search Conditions for PALSAR] for how to specify.

#### **<Search Area>**

See [3.5 Specify Search Area in Rectangle] and [3.6 Specify Search Area in Polygon] for how to specify a search area on the map. Also, see <Search Area> of [2.5.1.1 Specify Search ASTER/PALSAR Common Search Conditions].

### **2.5.3.3 Perform Search**

After specifying search conditions, click [Search] button to perform a search in the specified conditions both in cases of [Master Image Granule ID] and [AOI]. Search result appears on the Search Result field where order procedures can be started. See [2.6 Confirm Data Product Search Result] for operations on the Search Result field. However, only in case of [AOI] search, scenes retrieved as search result cannot be put into cart. Instead, the search result can be downloaded as a list. For how to download this list, see [2.6.11 Download AOI Search Result]

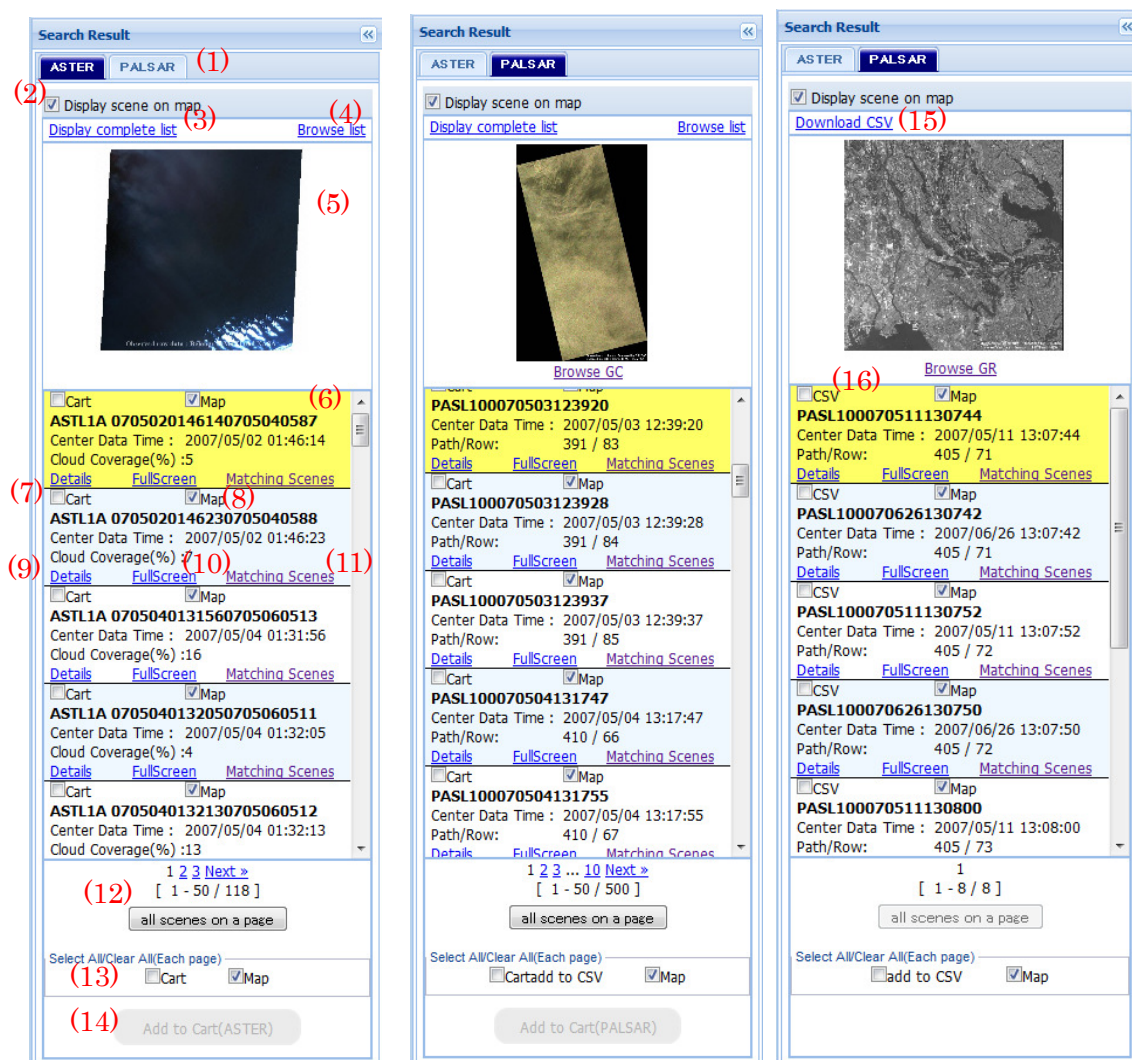
### **2.5.3.4 Reset Search Conditions**

Click [Reset] button to return all the search conditions to the default setting.

## **2.6. Confirm Data Product Search Result**

When a search is performed by one of the above mentioned methods, search result to match the specified search conditions appears as a list in the Search Result field on the left of ASTER/PALSAR Unified Search site (each scene coverage is displayed on the map). Search results for ASTER and PALSAR appear on different tab respectively. Display of ASTER or PALSAR search result can be switched by tab.

Structure of Search Result field is described below.



**Fig. 2.6-1 Left: ASTER Search Result tab, Middle: PALSAR Search Result tab, Right: AOI Search Result tab**

**Table 2.6-1 Contents of Search Result tab**

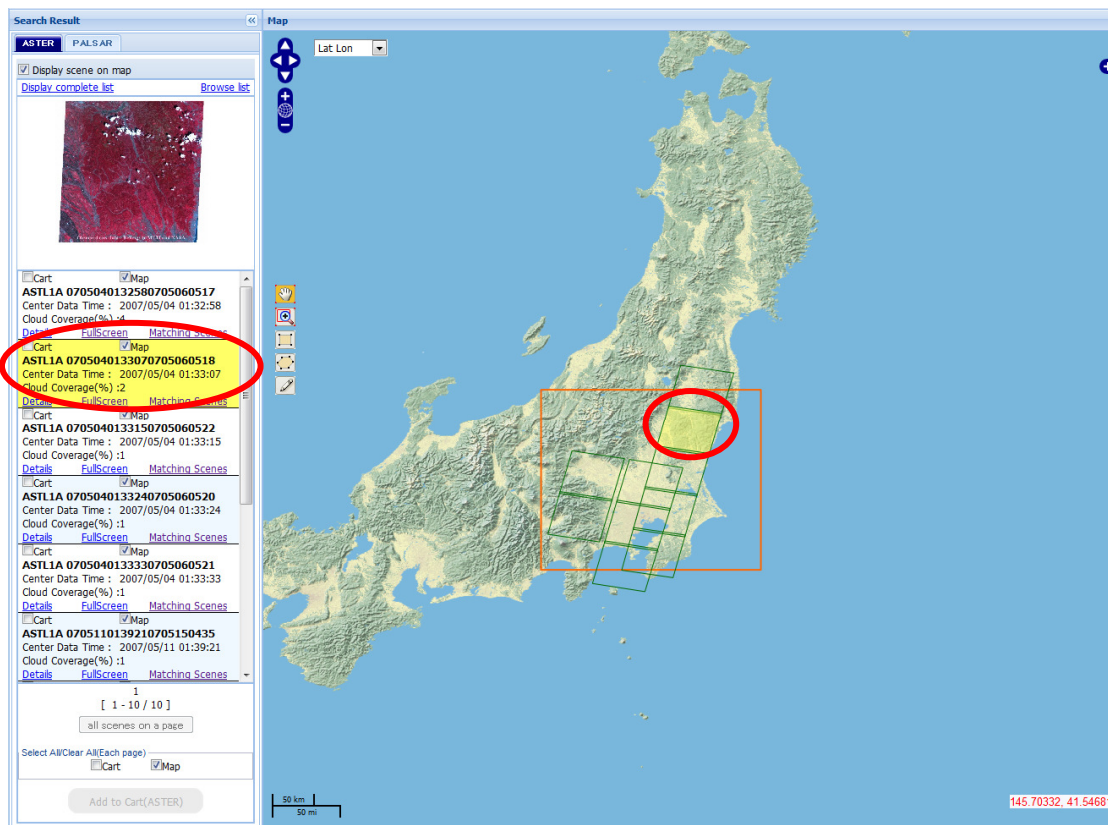
| No. | Contents              | Description  |
|-----|-----------------------|--|
| (1) | ASTER/PALSAR tab      | Display of search result for ASTER and PALSAR is switched                      |
| (2) | display scene on map  | ASTER and PALSAR scenes in search result are displayed on map or non-displayed |
| (3) | Display complete list | Complete list of product search result   |

|      |                                  |   |
|------|----------------------------------|---|
|      |                                  | appears on a new tab.   |
| (4)  | Browse list                      | Browse list window appears on a new tab   |
| (5)  | Browse Image                     | Browse image for the selected scene is displayed. In case browse image doesn't exist, a message of [No Browse Image] appears. Enlarged browse image is displayed on a new window.   |
| (6)  | Product Information              | Product Information of each scene retrieved as search result is shown.  |
| (7)  | Cart                             | Scene to order is selected. The scene whose Cart is checked can be added to cart by clicking [Add to Cart] button at the bottom.  |
| (8)  | Map                              | Display or non-display of each scene on map is switched   |
| (9)  | Details                          | Detailed display or simple display of each scene's product information is switched  |
| (10) | Full Screen                      | More detailed product information on the selected scene is displayed  |
| (11) | Matching Scenes                  | A new window to search scenes covering the same area as the selected scene  |
| (12) | Paging                           | Displayed page of search result list is switched by clicking [<<Previous], [Next>>], or page number. A page has search result of 50 scenes. If search result has more than 50 scenes, its list is divided and every 50 scenes are listed on a page. All scenes are displayed on a page when clicking [all scenes on a page] |
| (13) | Select All/Clear All (Each page) | [Cart]<br>All scenes listed on the displayed  |

|      |              |   |
|------|--------------|---|
|      |              | <p>page are put into cart. This function can switch on and off selecting all the scenes.</p> <p>[Map]</p> <p>All scenes on the displayed page are shown on map. This function can switch on and off selecting all the scenes.</p> |
| (14) | Add to Cart  | All the scenes selected for [Cart] are put into cart.   |
| (15) | Download CSV | Search result of all the scenes checked for [CSV] is downloaded in CSV format.  |
| (16) | CSV          | Scene to download its search result is selected. The scenes checked for [CSV] can be downloaded by clicking [Download CSV] described in (15)  |

### 2.6.1. Select Scenes in Search Result

Click the field of each scene in search result list, and background color changes to yellow and its corresponding scene frame on map is highlighted in yellow. Or, click the coverage frame of a scene on map, and field color of the corresponding scene in the Search Result is highlighted in yellow.



**Fig. 2.6.1-2 Highlight selected scene**

## 2.6.2. Display Browse Image

When a scene which has browse image is selected, its browse image is displayed on top of Search Result list. When the browse image is clicked, the browse image in the original size shows up on a new window.

ASTER search result shows the browse images of below sensors depending on observation mode.

**Table 2.6.2-1 ASTER Browse Image Types for display**

| Observation Mode | Sensor |
|------------------|--------|
| Full Mode        | VNIR   |
| VNIR Only        | VNIR   |
| SWIR + TIR       | SWIR   |
| TIR Only         | TIR    |

There are 5 types PALSAR Browse images shown in the below table. For the L1.0 virtual scenes produced before early February 2010, Quick Look is shown as Browse Image, while Browse is shown for the L1.0 virtual scenes produced after early February, 2010. In case higher level products such as L1.5 are already produced, images such as Browse Ortho, Browse GC, and Browse GR are shown according to the products.

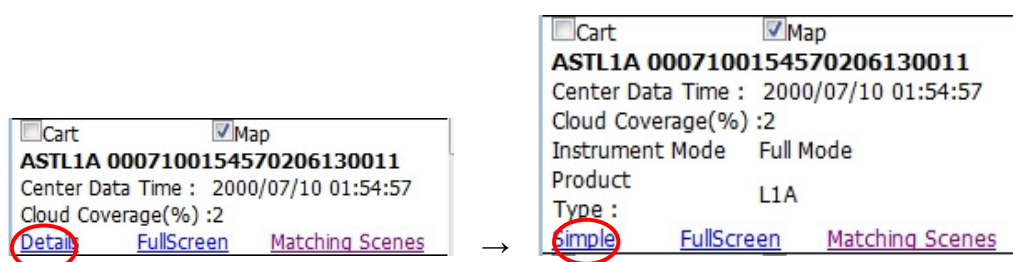
The type of displayed browse image is described under the browse image. The name of image is a link. Click a link, and the explanation of the browse image are shown.

**Table 2.6.2-2 PALSAR Browse Image Types**

| Image type   | Quality | Description   |
|--------------|---------|---|
| Quick Look   | Low     | Image for confirmation, which was produced in very simple method<br>Projection: projected to orbit direction                              |
| Browse       | Middle  | Image for confirmation, which was produced in Browse-creating program<br>Projection: projected to orbit direction                         |
| Browse Ortho | Middle  | Image for confirmation, which was produced in the process of generating ortho-product<br>Projection: projected on map (ortho)             |
| Browse GC    | High    | Image for confirmation, which was produced in the process of generating Geo-Coded product<br>Projection: projected on map                 |
| Browse GR    | High    | Image for confirmation, which was produced in the process of generating Geo-Reference product<br>Projection: projected to orbit direction |

### 2.6.3. Detailed Display and Simple Display of Search Result

Click [Details] in the list of search result to switch to the detailed display of the product.  
Click [Simple] to go back to simple display.



**Fig. 2.6.3-1 Detailed Display/Simple Display**



#### 2.6.4. Display/Non-Display Scenes on Map

Check [Map] in search result list to display the scene on map, and uncheck to non-display.

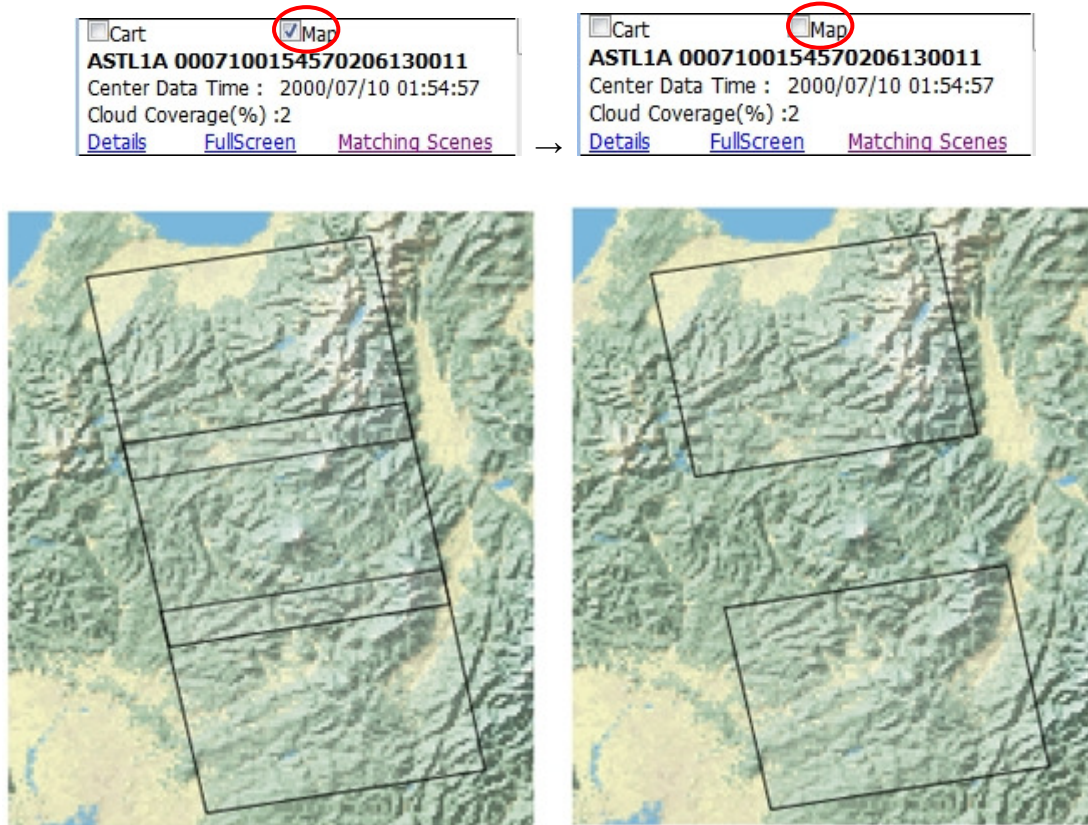


Fig. 2.6.4-1 Display and Non-display scene on map

Switch on or off the check box of [Map] at the bottom of the search result list to display or non-display all the search result on the page.

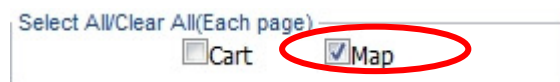


Fig. 2.6.4-2 Check box of [Map] at the bottom of search result list

#### 2.6.5. Display Detailed Information on Data Product

Click [Full Screen] in the search result list.



**Fig. 2.6.5-1 Click [Full Screen]**

A new window appears to show the detailed information on the selected scene for view. Information shown on this window is different between ASTER and PALSAR. The below example of Product Detailed Info window is for ASTER.



## Product Detailed Info

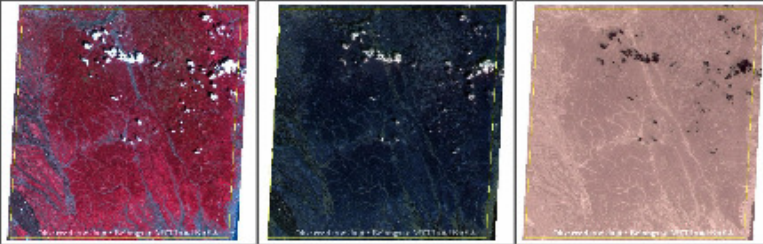
(1)

[Core meta data](#), [Specific meta data](#)

Granule ID: ASTL1A 0705040133070705060518

Dataset ID: ASTL1A

(2)



(3)

☒ Show orbit area

(4)

| Scene Info                    |                     |           |
|-------------------------------|---------------------|-----------|
| Start Date/Time               | 2007/05/04 01:33:07 |           |
| Center Date/Time              | 2007/05/04 01:33:07 |           |
| End Date/Time                 | 2007/05/04 01:33:07 |           |
| Latitude at the Scene Center  | 26.8096             |           |
| Longitude at the Scene Center | 140.3763            |           |
| Northernmost Latitude         | 27.1255             |           |
| Southernmost Latitude         | 26.4832             |           |
| Easternmost Longitude         | 140.8002            |           |
| Westernmost Longitude         | 139.9545            |           |
| Scene Boundary                | Latitude            | Longitude |
|                               | 27.1255             | 140.1151  |
|                               | 27.035              | 140.8002  |
|                               | 26.4832             | 140.8348  |
| Scene Cloud Coverage (%)      | 1                   |           |
|                               | 1                   |           |
| Quadrant Cloud Coverage (%)   | NW 2                | NE 2      |
|                               | SW 1                | SE 1      |

(5)

| Observation Info     |                                   |
|----------------------|-----------------------------------|
| Source               | EOS_AM-1                          |
| Sensor               | ASTER                             |
| Data Center          | ASTER_GDS                         |
| Project              | -                                 |
| Instrument Mode      | Full Mode                         |
| Offnadir Angle       | -                                 |
| Incident Angle       | -                                 |
| Orbit No.            | -                                 |
| Path No.             | -                                 |
| Row No.              | -                                 |
| Ascending/Descending | -                                 |
| Day/Night            | Day                               |
| STC                  | -                                 |
| PRF                  | -                                 |
| Unmapped Field       | -                                 |
| ASTER xAR ID         | 35225, 35229, 35511, 35705, 47317 |

(6)

| Quality Info                     |   |
|----------------------------------|---|
| Missing Line No.                 | - |
| Percentage of Missing Line       | - |
| Bit Error Rate                   | - |
| Doppler Ambiguity Confidence No. | - |
| Autofocus SNR                    | - |
| Quality                          | - |

(8)

| Data Preservation Info |   |
|------------------------|---|
| Data Size              | - |
| Bit Per Pixel          | - |

(9)

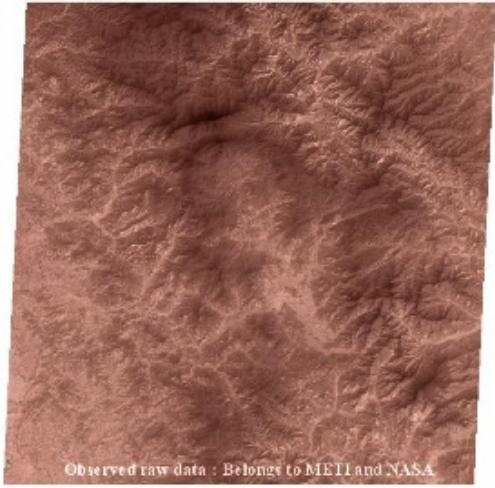
| Other Info             |   |           |          |
|------------------------|---|-----------|----------|
| Dataset Comments       | -   |           |          |
| Dataset Restrictions   | -   |           |          |
| Additional Information | -   |           |          |
| Gain                   | VNIR Band   | SWIR Band | TIR Band |
|                        | Band 01   | Band 04   | Band 10  |
|                        | Band 02   | Band 05   | Band 11  |
|                        | Band 3N   | Band 06   | Band 12  |
|                        | Band 3S   | Band 07   | Band 13  |
|                        |   | Band 08   | Band 14  |
|                        |   | Band 09   |          |
|                        |   |           |          |
|                        |   |           |          |
|                        |   |           |          |
| Band3S Band Pixels     | Number of missing pixels or N/A                     | -         |          |
|                        | Number of damaged detectors or N/A                  | -         |          |
|                        | Number of elements of the list of bad pixels or N/A | -         |          |

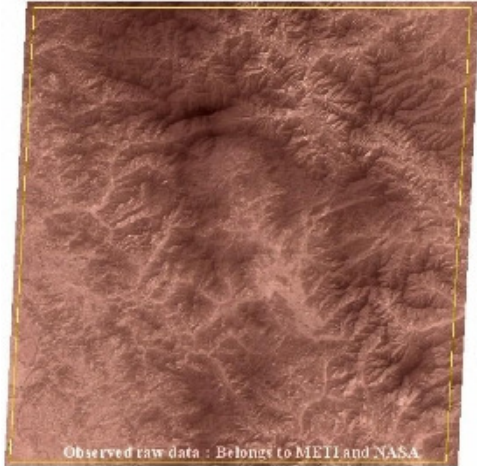
(7)

| Process Info                              |          |
|---|----------|
| Original Granule ID                       | -        |
| LO Granule ID                             | -        |
| Product Data                              | Level 1A |
| No. of Pixels                             | -        |
| No. of Lines                              | -        |
| No. of Looks                              | -        |
| STP ID                                    | -        |
| Product Version                           | -        |
| Orbit Data                                | -        |
| Product Generation Date/Time              | -        |
| Software                                  | -        |
| Software Version                          | -        |
| pub_sppr_scenes_query_inventory_Perimeter | -        |

**Fig. 2.6.5-2 Product Detailed Information for ASTER**

**Table 2.6.5-1 Contents on ASTER Product Detailed Info window**

| No. | Contents                                      | Description  |
|-----|---|--|
| (1) | Link to Core meta data and Specific meta data | Core meta data and Specific meta data can be accessed. Display of each meta data is switched on tab.   |
| (2) | Browse images                                 | Browse images are displayed.<br>When browse image doesn't exist, a message [No Browse Image] appears.<br>Enlarged image shows up on a new window when clicking the image                                   |
| (3) | Show ortho area                               | Expected scene area in case ortho product is generated is shown in yellow line<br>[Box unchecked]<br><br>[Box checked] |

|     |                        |  |
|-----|------------------------|--|
|     |                        |  |
| (4) | Scene Info             | Information on the scene is described  |
| (5) | Observation Info       | Information on observation is described  |
| (6) | Quality Info           | Information on quality is described  |
| (7) | Process Info           | Information on data processing is described.                                       |
| (8) | Data Preservation Info | Information on data preservation is described.                                     |
| (9) | Other Info             | Other information is described.  |

The below example of Product Detailed Info is for PALSAR.

## Product Detailed Info

Granule ID: X0503055001-01\_0032

(1)

Browse/Quick Look data: Processed by ERSDAC  
Observed raw data: Beorga to METI and JAXA

Browse GR

(2)

|            |                     |
|------------|---------------------|
| Dataset ID | L0                  |
| Granule ID | X0503055001-01_0032 |

(4)

| Observation Info     |                                       |
|----------------------|---------------------------------------|
| Source               | ALOS                                  |
| Sensor               | PALSAR                                |
| Data Center          | PALSAR GDS                            |
| Instrument Mode      | ScanSAR Mode / HH 5scan / Short Cycle |
| Offnadir Angle       | -                                     |
| Incident Angle       | -                                     |
| Orbit No.            | -                                     |
| Path No.             | 55                                    |
| Row No.              | 291                                   |
| Ascending/Descending | Descending                            |
| Day/Night            | -                                     |
| STC                  | -                                     |
| PRF                  | -                                     |

(3)

| Scene Info                    |                     |           |
|-------------------------------|---------------------|-----------|
| Start Date/Time               | 2007/06/10 01:06:37 |           |
| Center Date/Time              | 2007/06/10 01:06:42 |           |
| End Date/Time                 | 2007/06/10 01:06:47 |           |
| Latitude at the Scene Center  | 35.201              |           |
| Longitude at the Scene Center | 142.5201            |           |
| Nothernmost Latitude          | 35.8203             |           |
| Southernmost Latitude         | 34.6146             |           |
| Easternmost Longitude         | 144.3256            |           |
| Westernmost Longitude         | 140.3043            |           |
| Scene Boundary                | Latitude            | Longitude |
|                               | 34.6146             | 144.1726  |
|                               | 35.2168             | 144.3256  |
|                               | 35.8203             | 140.428   |
|                               | 35.2184             | 140.3043  |
| Scene Cloud Coverage (%)      | -                   |           |
| Quadrant Cloud Coverage (%)   | NW -                | NE -      |
|                               | SW -                | SE -      |

(6)

| Process Info                 |                          |
|------------------------------|--------------------------|
| Original Granule ID          | -                        |
| L0 Granule ID                | -                        |
| Product Data                 | L0 DATA                  |
| No. of Pixels                | -                        |
| No. of Lines                 | -                        |
| No. of Looks                 | -                        |
| STF ID                       | -                        |
| Product Version              | -                        |
| Orbit Data                   | High Accuracy Orbit Data |
| Product Generation Date/Time | -                        |
| Software                     | -                        |
| Software Version             | -                        |

(5)

| Quality Info                     |   |
|----------------------------------|---|
| Missing Line No.                 | - |
| Percentage of Missing Line       | - |
| Bit Error Rate                   | - |
| Doppler Ambiguity Confidence No. | - |
| Autofocus SNR                    | - |
| Quality                          | - |

(7)

| Data Preservation Info |   |
|------------------------|---|
| Data Size              | - |
| Bit Per Pixel          | - |

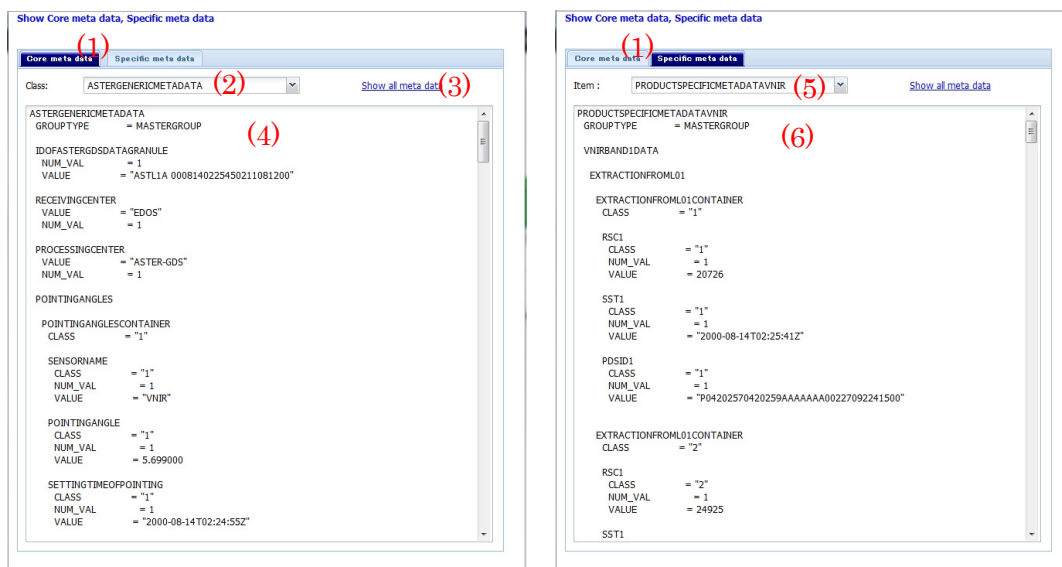
Fig. 2.6.5-3 PALSAR Product Detailed Info

Table 2.6.5-2 Contents of PALSAR Product Detailed Info window

| No. | Contents     | Description  |
|-----|--------------|--|
| (1) | Browse Image | Browse images are displayed.<br>When browse image doesn't exist, a |

|     |                          |   |
|-----|--------------------------|---|
|     |                          | message [No Browse Image] appears.<br>Enlarged image shows up on a new window when clicking the image |
| (2) | Dataset ID<br>Granule ID | Dataset ID and Granule ID of the scene are described.   |
| (3) | Scene Info               | Information on the scene is described   |
| (4) | Observation Info         | Information on observation is described   |
| (5) | Quality Info             | Information on quality is described   |
| (6) | Process Info             | Information on data processing is described.  |
| (7) | Data Preservation Info   | Information on data preservation is described.  |

Click [Core meta data, Specific meta data] link, and [Show Core meta data, Specific meta data] screen appears.



**Fig. 2.6.5-4 Left: Core meta data tab, Right: Specific meta data tab**

**Table 2.6.5-3 Contents of Core meta data, Specific meta data screen**

| No. | Contents                               | Description  |
|-----|--|--|
| (1) | Core meta data/Specific meta data tabs | Information of core meta data and specific meta data is displayed by switching tab |

|     |                           |   |
|-----|---------------------------|---|
| (2) | Class name drop-down list | Class name list of core metadata is shown                         |
| (3) | Show all meta data        | All meta data is displayed on a new tab                           |
| (4) | Core meta data            | Core meta data selected by class name drop-down list is displayed |
| (5) | Item name drop-down list  | Item name list of specific meta data is shown                     |
| (6) | Specific meta data        | Specific meta data selected by item name drop-down list is shown  |

#### 2.6.6. Put Scenes into Cart

Select scenes to order on the search result list of ASTER and PALSAR respectively. Check [Cart] of each scene to select for order. The selected scene is highlighted in red frame on map.

After selecting scenes to order, click [Add to Cart (ASTER)] or [Add to Cart (PALSAR)] to put the scenes into cart.

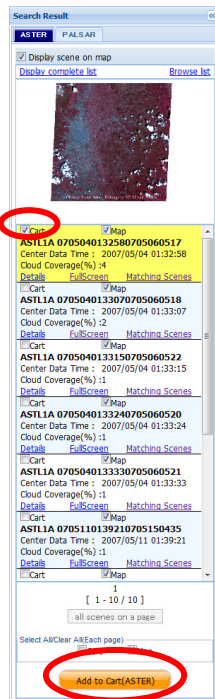


Fig. 2.6.6-1 Check [Cart] and click [Add to Cart (ASTER)]

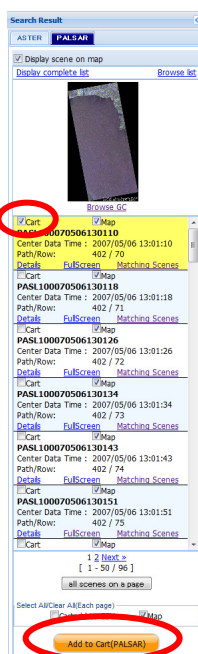


Fig. 2.6.6-2 Check [Cart] and click [Add to Cart (PALSAR)]

### 2.6.7. Display Complete List of Search Result

Click [Display complete list] on top of Search Result window to show all the search results in the format of complete list. This list has different items between ASTER and PALSAR, both of which can be displayed on each tab of Search Result individually.

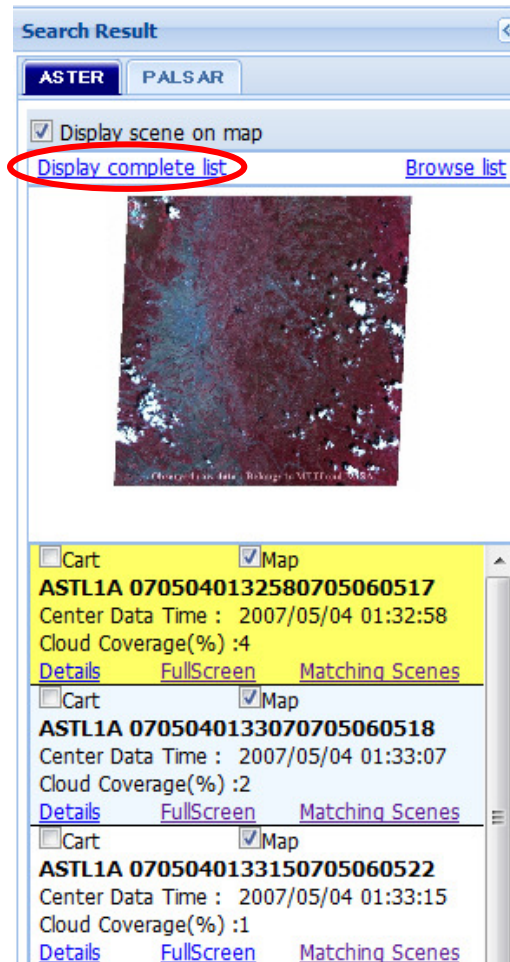


Fig. 2.6.7-1 Click [Display complete list]

The below example is a complete list of ASTER search result.



## Product Search Result

| Search Condition       |                       | Download              |
|------------------------|-----------------------|-----------------------|
| Search Type            | Inventory             | kmz scenes : (56.0kB) |
| Sensor                 | ASTER                 | csv scenes : (95.6kB) |
| Instrument Mode        | Full Mode             |                       |
| Search Date / Time     | Continuous Time Range |                       |
| Start Date/Time        | 2000/07/03 10:54:26   |                       |
| End Date/Time          | 2012/07/03 10:54:26   |                       |
| Search Area Type       | Rectangle Area Search |                       |
| Northernmost Latitude  | 46.40625              |                       |
| Westernmost Longitude  | 129.375               |                       |
| Southernmost Latitude  | 28.125                |                       |
| Easternmost Longitude  | 156.09375             |                       |
| Day or Night           | Day                   |                       |
| Cloud Coverage(%)      | 20                    |                       |
| Max Number of Granules | 500                   |                       |

| Granule ID                    | Date / Time of the Scene Center | Center Latitude | Center Longitude | Instrument Mode | Product Type | Day or Night | Cloud Coverage(%) | Northernmost Latitude | Westernmost Longitude | Southernmost Latitude | Easternmost Longitude |
|-------------------------------|---------------------------------|-----------------|------------------|-----------------|--------------|--------------|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| ASTLIA 0007040232120206040841 | 2000/07/04 02:32:12             | 34.5951         | 129.583          | Full Mode       | L1A          | Day          | 11                | 34.922                | 129.1687              | 34.2672               | 130.0029              |
| ASTLIA 0007040232120206040842 | 2000/07/04 02:32:21             | 34.0653         | 129.4293         | Full Mode       | L1A          | Day          | 7                 | 34.3919               | 129.0178              | 33.7376               | 129.8463              |
| ASTLIA 0007040232300206040843 | 2000/07/04 02:32:30             | 33.5354         | 129.2771         | Full Mode       | L1A          | Day          | 10                | 33.8617               | 128.8684              | 33.208                | 129.6913              |
| ASTLIA 0007040232390206040844 | 2000/07/04 02:32:39             | 33.0051         | 129.1264         | Full Mode       | L1A          | Day          | 17                | 33.3313               | 128.7203              | 32.678                | 129.5378              |
| ASTLIA 0007040232480206040845 | 2000/07/04 02:32:48             | 32.4747         | 128.977          | Full Mode       | L1A          | Day          | 8                 | 32.8006               | 128.5735              | 32.1478               | 129.3857              |
| ASTLIA 0007060219240206070656 | 2000/07/06 02:19:24             | 36.2986         | 132.3659         | Full Mode       | L1A          | Day          | 15                | 36.6242               | 131.9465              | 35.9725               | 132.7875              |
| ASTLIA 0007060219420206070658 | 2000/07/06 02:19:42             | 35.2383         | 132.0606         | Full Mode       | L1A          | Day          | 1                 | 35.5634               | 131.6472              | 34.9127               | 132.4761              |
| ASTLIA 0007060220080206070661 | 2000/07/06 02:20:08             | 33.6467         | 131.6135         | Full Mode       | L1A          | Day          | 4                 | 33.9711               | 131.2085              | 33.3217               | 132.0206              |
| ASTLIA 0007060220170206070662 | 2000/07/06 02:20:17             | 33.1158         | 131.4673         | Full Mode       | L1A          | Day          | 7                 | 33.4401               | 131.0549              | 32.7911               | 131.8716              |
| ASTLIA 0007060220260206070663 | 2000/07/06 02:20:26             | 32.5847         | 131.3223         | Full Mode       | L1A          | Day          | 18                | 32.9087               | 130.9225              | 32.2602               | 131.724               |
| ASTLIA 0007060220350206070664 | 2000/07/06 02:20:35             | 32.0536         | 131.1786         | Full Mode       | L1A          | Day          | 16                | 32.3774               | 130.7813              | 31.7293               | 131.5777              |
| ASTLIA 0007060220440206070665 | 2000/07/06 02:20:44             | 31.5222         | 131.0361         | Full Mode       | L1A          | Day          | 8                 | 31.8458               | 130.6412              | 31.1981               | 131.4327              |
| ASTLIA 0007060220530206070666 | 2000/07/06 02:20:53             | 30.9907         | 130.8948         | Full Mode       | L1A          | Day          | 7                 | 31.3142               | 130.5023              | 30.6668               | 131.289               |
| ASTLIA 0007060221100206070668 | 2000/07/06 02:21:10             | 29.9274         | 130.6156         | Full Mode       | L1A          | Day          | 10                | 30.2505               | 130.2277              | 29.6039               | 131.0052              |
| ASTLIA 0007060221280206070670 | 2000/07/06 02:21:28             | 28.8634         | 130.3407         | Full Mode       | L1A          | Day          | 11                | 29.1862               | 129.9571              | 28.5403               | 130.7258              |
| ASTLIA 0007060221370206070671 | 2000/07/06 02:21:37             | 28.3313         | 130.2048         | Full Mode       | L1A          | Day          | 1                 | 28.6538               | 129.8232              | 28.0083               | 130.5878              |
| ASTLIA 0007080207460302050129 | 2000/07/08 02:07:46             | 33.647          | 134.7012         | Full Mode       | L1A          | Day          | 4                 | 33.9715               | 134.2962              | 33.3221               | 135.1081              |
| ASTLIA 0007080207550302050130 | 2000/07/08 02:07:55             | 33.1162         | 134.5549         | Full Mode       | L1A          | Day          | 2                 | 33.4404               | 134.1526              | 32.7915               | 134.9592              |
| ASTLIA 0007080208040302050131 | 2000/07/08 02:08:04             | 32.5851         | 134.4099         | Full Mode       | L1A          | Day          | 0                 | 32.9091               | 134.0102              | 32.2605               | 134.8116              |
| ASTLIA 0007080208130302050132 | 2000/07/08 02:08:13             | 32.0539         | 134.2662         | Full Mode       | L1A          | Day          | 0                 | 32.3777               | 133.869               | 31.7296               | 134.6653              |
| ASTLIA 0007080208220302050133 | 2000/07/08 02:08:22             | 31.5226         | 134.1238         | Full Mode       | L1A          | Day          | 1                 | 31.8463               | 133.7289              | 31.1985               | 134.5203              |

Fig. 2.6.7-2 Complete list of ASTER search result

The below example is a complete list of PALSAR search result.

## Product Search Result

| Search Condition       |                       | Download               |
|------------------------|-----------------------|------------------------|
| Search Type            | Inventory             | kmz scenes : (152.3kB) |
| Sensor                 | PALSAR                | csv scenes : (120.8kB) |
| Instrument Mode        | FBS FBD SCN PLR       |                        |
| Search Date / Time     | Continuous Time Range |                        |
| Start Date/Time        | 2000/07/03 10:54:26   |                        |
| End Date/Time          | 2012/07/03 10:54:26   |                        |
| Search Area Type       | Rectangle Area Search |                        |
| Northernmost Latitude  | 46.40625              |                        |
| Westernmost Longitude  | 129.375               |                        |
| Southernmost Latitude  | 28.125                |                        |
| Easternmost Longitude  | 156.09375             |                        |
| Orbit Data             | Any                   |                        |
| Ascending / Descending | Any                   |                        |
| Max Number of Granules | 500                   |                        |

| Granule ID          | Path | Row | Date / Time of the Scene Center | Center Latitude | Center Longitude | Ascending/Descending | Orbit Data               | Instrument Mode   | Product Type | Cycle | Northernmost Latitude | Westernmost Longitude | Southernmost Latitude | Easternmost Longitude |
|---------------------|------|-----|---------------------------------|-----------------|------------------|----------------------|--------------------------|---|--------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|
| PASL100060427011039 | 58   | 298 | 2006/04/27 01:10:39             | 31.9493         | 138.82           | DES                  | High Accuracy Orbit Data | Fine Mode /<br>Ht /<br>Off-Nadir<br>Angle<br>34.3deg    | L1.0         | 3     | 32.3049               | 138.398               | 31.5898               | 139.2614              |
| PASL100060515125344 | 400  | 70  | 2006/05/15 12:53:44             | 35.0652         | 140.559          | ASC                  | High Accuracy Orbit Data | Polarimetric<br>Mode /<br>Off-Nadir<br>Angle<br>21.5deg | L1.0         | 3     | 35.3975               | 140.282               | 34.7311               | 140.824               |
| PASL100060515125352 | 400  | 71  | 2006/05/15 12:53:52             | 35.5594         | 140.435          | ASC                  | High Accuracy Orbit Data | Polarimetric<br>Mode /<br>Off-Nadir<br>Angle<br>21.5deg | L1.0         | 3     | 35.8931               | 140.166               | 35.2251               | 140.701               |
| PASL100060515125400 | 400  | 72  | 2006/05/15 12:54:00             | 36.0567         | 140.33           | ASC                  | High Accuracy Orbit Data | Polarimetric<br>Mode /<br>Off-Nadir<br>Angle<br>21.5deg | L1.0         | 3     | 36.3889               | 140.05                | 35.7192               | 140.578               |
| PASL100060515125409 | 400  | 73  | 2006/05/15 12:54:09             | 36.5507         | 140.204          | ASC                  | High Accuracy Orbit Data | Polarimetric<br>Mode /<br>Off-Nadir<br>Angle<br>21.5deg | L1.0         | 3     | 36.8829               | 139.922               | 36.2164               | 140.472               |
| PASL100060515125417 | 400  | 74  | 2006/05/15 12:54:17             | 37.0444         | 140.076          | ASC                  | High Accuracy Orbit Data | Polarimetric<br>Mode /<br>Off-Nadir<br>Angle<br>21.5deg | L1.0         | 3     | 37.3767               | 139.793               | 36.7101               | 140.347               |

Fig. 2.6.7-3 Complete list of PALSAR search result

## 2.6.8. Download Search Result

Complete list of product search result currently displayed can be downloaded in KMZ or CSV format from [Download] field (KMZ format is the compressed file of KML).

**Product Search Result**

| Search Condition       |                       | Download                                 |
|------------------------|-----------------------|--|
| Search Type            | Inventory             | <a href="#">img [scenes : (256.0kB)]</a> |
| Sensor                 | ASTER                 | <a href="#">sw [scenes : (95.6kB)]</a>   |
| Instrument Mode        | Full Mode             |  |
| Search Date / Time     | Continuous Time Range |  |
| Start Date/Time        | 2000/07/03 10:54:26   |  |
| End Date/Time          | 2012/07/03 10:54:26   |  |
| Search Area Type       | Rectangle Area Search |  |
| Northernmost Latitude  | 46.48625              |  |
| Westernmost Longitude  | 129.375               |  |
| Southernmost Latitude  | 28.125                |  |
| Easternmost Longitude  | 156.89375             |  |
| Day or Night           | Day                   |  |
| Cloud Coverage (%)     | 20                    |  |
| Max Number of Granules | 500                   |  |

| Granule ID                   | Date / Time of the Scene Center | Center Latitude | Center Longitude | Instrument Mode | Product Type | Day or Night | Cloud Coverage (%) | Northernmost Latitude | Westernmost Longitude | Southernmost Latitude | Easternmost Longitude |
|------------------------------|---------------------------------|-----------------|------------------|-----------------|--------------|--------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| ASTLA 0007040232120206040841 | 2000/07/04 02:32:12             | 34.5951         | 129.583          | Full Mode       | L1A          | Day          | 11                 | 34.922                | 129.1887              | 34.2672               | 130.0029              |
| ASTLA 0007040232210206040842 | 2000/07/04 02:32:21             | 34.0653         | 129.4293         | Full Mode       | L1A          | Day          | 7                  | 34.3919               | 129.0178              | 33.7376               | 129.8463              |
| ASTLA 0007040232320206040843 | 2000/07/04 02:32:30             | 33.5354         | 129.2773         | Full Mode       | L1A          | Day          | 10                 | 33.8617               | 128.8684              | 33.208                | 129.6913              |
| ASTLA 0007040232390206040844 | 2000/07/04 02:32:39             | 33.0051         | 129.1264         | Full Mode       | L1A          | Day          | 17                 | 33.3313               | 128.7203              | 32.618                | 129.5378              |
| ASTLA 0007040232480206040845 | 2000/07/04 02:32:48             | 32.4747         | 128.977          | Full Mode       | L1A          | Day          | 8                  | 32.8006               | 128.5735              | 32.1478               | 129.3897              |
| ASTLA 0007060219240206070636 | 2000/07/06 02:19:24             | 36.2466         | 132.3659         | Full Mode       | L1A          | Day          | 15                 | 36.6242               | 131.8465              | 35.9725               | 132.7875              |
| ASTLA 0007060219420206070638 | 2000/07/06 02:19:42             | 35.2383         | 132.0606         | Full Mode       | L1A          | Day          | 1                  | 35.5634               | 131.6472              | 34.9127               | 132.4761              |
| ASTLA 0007060220080206070641 | 2000/07/06 02:20:08             | 33.6407         | 131.6135         | Full Mode       | L1A          | Day          | 4                  | 33.9711               | 131.2685              | 33.3217               | 132.0206              |
| ASTLA 0007060220170206070652 | 2000/07/06 02:20:17             | 33.1158         | 131.4673         | Full Mode       | L1A          | Day          | 7                  | 33.4401               | 131.0649              | 32.7911               | 131.8716              |
| ASTLA 0007060220260206070663 | 2000/07/06 02:20:26             | 32.5847         | 131.3223         | Full Mode       | L1A          | Day          | 18                 | 32.9087               | 130.8225              | 32.2602               | 131.724               |
| ASTLA 0007060220350206070664 | 2000/07/06 02:20:35             | 32.0536         | 131.1786         | Full Mode       | L1A          | Day          | 16                 | 32.3774               | 130.7813              | 31.7293               | 131.5777              |
| ASTLA 0007060220440206070665 | 2000/07/06 02:20:44             | 31.5222         | 131.0361         | Full Mode       | L1A          | Day          | 8                  | 31.8458               | 130.6412              | 31.1981               | 131.4327              |
| ASTLA 0007060220530206070666 | 2000/07/06 02:20:53             | 30.9907         | 130.8948         | Full Mode       | L1A          | Day          | 7                  | 31.3142               | 130.5023              | 30.6608               | 131.289               |
| ASTLA 0007060231100206070668 | 2000/07/06 02:31:10             | 29.5274         | 130.6156         | Full Mode       | L1A          | Day          | 10                 | 30.2503               | 130.2777              | 29.6039               | 131.0552              |
| ASTLA 0007060231280206070670 | 2000/07/06 02:31:28             | 28.8634         | 130.3407         | Full Mode       | L1A          | Day          | 11                 | 29.1862               | 129.9571              | 28.5403               | 130.7258              |
| ASTLA 0007060231370206070671 | 2000/07/06 02:31:37             | 28.3313         | 130.2048         | Full Mode       | L1A          | Day          | 1                  | 28.6538               | 129.8232              | 28.0083               | 130.5878              |
| ASTLA 0007060231460206070672 | 2000/07/06 02:31:46             | 27.7992         | 129.9799         | Full Mode       | L1A          | Day          | 4                  | 28.1267               | 129.6941              | 27.4768               | 130.4508              |
| ASTLA 0007060231550206070673 | 2000/07/06 02:31:55             | 27.2671         | 129.7450         | Full Mode       | L1A          | Day          | 2                  | 27.5940               | 129.5050              | 27.0439               | 130.3138              |
| ASTLA 0007060232040206070674 | 2000/07/06 02:32:04             | 26.7350         | 129.5101         | Full Mode       | L1A          | Day          | 0                  | 27.0619               | 129.3159              | 26.5098               | 130.1768              |
| ASTLA 0007060232130206070675 | 2000/07/06 02:32:13             | 26.2029         | 129.2752         | Full Mode       | L1A          | Day          | 0                  | 26.5308               | 129.0808              | 26.2997               | 130.0398              |
| ASTLA 0007060232220206070676 | 2000/07/06 02:32:22             | 25.6708         | 129.0403         | Full Mode       | L1A          | Day          | 0                  | 26.0007               | 128.8457              | 25.7697               | 129.9028              |
| ASTLA 0007060232310206070677 | 2000/07/06 02:32:31             | 25.1387         | 128.8054         | Full Mode       | L1A          | Day          | 0                  | 25.4686               | 128.6105              | 25.2475               | 129.7658              |
| ASTLA 0007060232400206070678 | 2000/07/06 02:32:40             | 24.6066         | 128.5705         | Full Mode       | L1A          | Day          | 0                  | 24.9345               | 128.3754              | 24.7134               | 129.6288              |
| ASTLA 0007060232490206070679 | 2000/07/06 02:32:49             | 24.0745         | 128.3356         | Full Mode       | L1A          | Day          | 0                  | 24.4024               | 128.1403              | 24.1813               | 129.4918              |
| ASTLA 0007060232580206070680 | 2000/07/06 02:32:58             | 23.5424         | 128.1007         | Full Mode       | L1A          | Day          | 0                  | 23.8703               | 127.9052              | 23.6492               | 129.3548              |
| ASTLA 0007060233030206070681 | 2000/07/06 02:33:03             | 23.0103         | 127.8658         | Full Mode       | L1A          | Day          | 0                  | 23.3382               | 127.6707              | 23.1171               | 129.2178              |
| ASTLA 0007060233120206070682 | 2000/07/06 02:33:12             | 22.4782         | 127.6309         | Full Mode       | L1A          | Day          | 0                  | 22.8061               | 127.4358              | 22.5850               | 129.0808              |
| ASTLA 0007060233210206070683 | 2000/07/06 02:33:21             | 21.9461         | 127.3960         | Full Mode       | L1A          | Day          | 0                  | 22.2740               | 127.2407              | 22.0529               | 128.9438              |
| ASTLA 0007060233300206070684 | 2000/07/06 02:33:30             | 21.4140         | 127.1611         | Full Mode       | L1A          | Day          | 0                  | 21.7419               | 127.0056              | 21.5208               | 128.8068              |
| ASTLA 0007060233390206070685 | 2000/07/06 02:33:39             | 20.8819         | 126.9262         | Full Mode       | L1A          | Day          | 0                  | 21.2098               | 126.7601              | 20.9887               | 128.6698              |
| ASTLA 0007060233480206070686 | 2000/07/06 02:33:48             | 20.3498         | 126.6913         | Full Mode       | L1A          | Day          | 0                  | 20.6777               | 126.5150              | 20.4566               | 128.5328              |
| ASTLA 0007060233570206070687 | 2000/07/06 02:33:57             | 19.8177         | 126.4564         | Full Mode       | L1A          | Day          | 0                  | 20.1456               | 126.2799              | 19.9245               | 128.3958              |
| ASTLA 0007060234060206070688 | 2000/07/06 02:34:06             | 19.2856         | 126.2215         | Full Mode       | L1A          | Day          | 0                  | 19.6135               | 126.0448              | 19.3924               | 128.2588              |
| ASTLA 0007060234150206070689 | 2000/07/06 02:34:15             | 18.7535         | 125.9866         | Full Mode       | L1A          | Day          | 0                  | 19.0814               | 125.8097              | 18.8603               | 128.1218              |
| ASTLA 0007060234240206070690 | 2000/07/06 02:34:24             | 18.2214         | 125.7517         | Full Mode       | L1A          | Day          | 0                  | 18.5493               | 125.5746              | 18.3282               | 127.9848              |
| ASTLA 0007060234330206070691 | 2000/07/06 02:34:33             | 17.6893         | 125.5168         | Full Mode       | L1A          | Day          | 0                  | 18.0172               | 125.3395              | 17.7961               | 127.8478              |
| ASTLA 0007060234420206070692 | 2000/07/06 02:34:42             | 17.1572         | 125.2819         | Full Mode       | L1A          | Day          | 0                  | 17.4851               | 125.1044              | 17.2640               | 127.7108              |
| ASTLA 0007060234510206070693 | 2000/07/06 02:34:51             | 16.6251         | 125.0470         | Full Mode       | L1A          | Day          | 0                  | 16.9530               | 124.8693              | 16.7319               | 127.5738              |
| ASTLA 0007060234600206070694 | 2000/07/06 02:35:00             | 16.0930         | 124.8121         | Full Mode       | L1A          | Day          | 0                  | 16.4209               | 124.6342              | 16.2008               | 127.4368              |
| ASTLA 0007060234690206070695 | 2000/07/06 02:35:09             | 15.5609         | 124.5772         | Full Mode       | L1A          | Day          | 0                  | 15.8888               | 124.3991              | 15.6677               | 127.2998              |
| ASTLA 0007060234780206070696 | 2000/07/06 02:35:18             | 15.0288         | 124.3423         | Full Mode       | L1A          | Day          | 0                  | 15.3567               | 124.1640              | 15.1356               | 127.1628              |
| ASTLA 0007060234870206070697 | 2000/07/06 02:35:27             | 14.4967         | 124.1074         | Full Mode       | L1A          | Day          | 0                  | 14.8246               | 123.9289              | 14.6035               | 127.0258              |
| ASTLA 0007060234960206070698 | 2000/07/06 02:35:36             | 13.9646         | 123.8725         | Full Mode       | L1A          | Day          | 0                  | 14.2925               | 123.7438              | 14.0714               | 126.8888              |
| ASTLA 0007060235050206070699 | 2000/07/06 02:35:45             | 13.4325         | 123.6376         | Full Mode       | L1A          | Day          | 0                  | 13.7604               | 123.5087              | 13.5393               | 126.7518              |
| ASTLA 0007060235140206070700 | 2000/07/06 02:35:54             | 12.8994         | 123.4027         | Full Mode       | L1A          | Day          | 0                  | 13.2283               | 123.2736              | 13.0072               | 126.6148              |
| ASTLA 0007060235230206070701 | 2000/07/06 02:36:03             | 12.3673         | 123.1678         | Full Mode       | L1A          | Day          | 0                  | 12.6952               | 123.0385              | 12.4741               | 126.4778              |
| ASTLA 0007060235320206070702 | 2000/07/06 02:36:12             | 11.8352         | 122.9329         | Full Mode       | L1A          | Day          | 0                  | 12.1631               | 122.8034              | 11.9420               | 126.3408              |
| ASTLA 0007060235410206070703 | 2000/07/06 02:36:21             | 11.3031         | 122.6980         | Full Mode       | L1A          | Day          | 0                  | 11.6310               | 122.5683              | 11.4099               | 126.2038              |
| ASTLA 0007060235500206070704 | 2000/07/06 02:36:30             | 10.7710         | 122.4631         | Full Mode       | L1A          | Day          | 0                  | 11.0989               | 122.3332              | 10.8778               | 126.0668              |
| ASTLA 0007060235590206070705 | 2000/07/06 02:36:39             | 10.2389         | 122.2282         | Full Mode       | L1A          | Day          | 0                  | 10.5668               | 122.1041              | 10.3457               | 125.9298              |
| ASTLA 0007060235680206070706 | 2000/07/06 02:36:48             | 9.7068          | 121.9933         | Full Mode       | L1A          | Day          | 0                  | 10.0347               | 121.8690              | 9.8136                | 125.7928              |
| ASTLA 0007060235770206070707 | 2000/07/06 02:36:57             | 9.1747          | 121.7584         | Full Mode       | L1A          | Day          | 0                  | 9.5026                | 121.6341              | 9.2815                | 125.6558              |
| ASTLA 0007060235860206070708 | 2000/07/06 02:37:06             | 8.6426          | 121.5235         | Full Mode       | L1A          | Day          | 0                  | 8.9705                | 121.4090              | 8.7494                | 125.5188              |
| ASTLA 0007060235950206070709 | 2000/07/06 02:37:15             | 8.1105          | 121.2886         | Full Mode       | L1A          | Day          | 0                  | 8.4384                | 121.1741              | 8.2173                | 125.3818              |
| ASTLA 0007060236040206070710 | 2000/07/06 02:37:24             | 7.5784          | 121.0537         | Full Mode       | L1A          | Day          | 0                  | 7.9063                | 120.9390              | 7.6852                | 125.2448              |
| ASTLA 0007060236130206070711 | 2000/07/06 02:37:33             | 7.0463          | 120.8188         | Full Mode       | L1A          | Day          | 0                  | 7.3742                | 120.7041              | 7.1531                | 125.1078              |
| ASTLA 0007060236220206070712 | 2000/07/06 02:37:42             | 6.5142          | 120.5839         | Full Mode       | L1A          | Day          | 0                  | 6.8421                | 120.5690              | 6.6210                | 124.9708              |
| ASTLA 0007060236310206070713 | 2000/07/06 02:37:51             | 5.9821          | 120.3490         | Full Mode       | L1A          | Day          | 0                  | 6.3100                | 120.3341              | 6.0889                | 124.8338              |
| ASTLA 0007060236400206070714 | 2000/07/06 02:38:00             | 5.4500          | 120.1141         | Full Mode       | L1A          | Day          | 0                  | 5.7779                | 120.1000              | 5.5568                | 124.6968              |
| ASTLA 0007060236490206070715 | 2000/07/06 02:38:09             | 4.9179          | 119.8792         | Full Mode       | L1A          | Day          | 0                  | 5.2458                | 119.8651              | 5.0247                | 124.5598              |
| ASTLA 0007060236580206070716 | 2000/07/06 02:38:18             | 4.3858          | 119.6443         | Full Mode       | L1A          | Day          | 0                  | 4.7137                | 119.6302              | 4.4926                | 124.4228              |
| ASTLA 0007060236670206070717 | 2000/07/06 02:38:27             | 3.8537          | 119.4094         | Full Mode       | L1A          | Day          | 0                  | 4.1816                | 119.3953              | 3.9605                | 124.2858              |
| ASTLA 0007060236760206070718 | 2000/07/06 02:38:36             | 3.3216          | 119.1745         | Full Mode       | L1A          | Day          | 0                  | 3.6495                | 119.1604              | 3.4284                | 124.1488              |
| ASTLA 0007060236850206070719 | 2000/07/06 02:38:45             | 2.7895          | 118.9396         | Full Mode       | L1A          | Day          | 0                  | 3.1174                | 118.9255              | 2.8963                | 124.0118              |
| ASTLA 0007060236940206070720 | 2000/07/06 02:38:54             | 2.2574          | 118.7047         | Full Mode       | L1A          | Day          | 0                  | 2.5853                | 118.6906              | 2.3642                | 123.8748              |
| ASTLA 0007060237030206070721 | 2000/07/06 02:39:03             | 1.7253          | 118.4698         | Full Mode       | L1A          | Day          | 0                  | 2.0532                | 118.4557              | 1.8321                | 123.7378              |
| ASTLA 0007060237120206070722 | 2000/07/06 02:39:12             | 1.1932          | 118.2349         | Full Mode       | L1A          | Day          | 0                  | 1.5211                | 118.2200              | 1.3000                | 123.6008              |
| ASTLA 0007060237210206070723 | 2000/07/06 02:39:21             | 0.6611          | 117.9990         | Full Mode       | L1A          | Day          | 0                  | 0.9890                | 117.9851              | 0.7679                | 123.4638              |
| ASTLA 0007060237300206070724 | 2000/07/06 02:39:30             | 0.1290          | 117.7641         | Full Mode       | L1A          | Day          | 0                  | 0.4569                | 117.7500              | 0.2358                | 123.3268              |
| ASTLA 0007060237390206070725 | 2000/07/06 02:39:39             | -0.4031         | 117.5292         | Full Mode       | L1A          | Day          | 0                  | -0.0750               | 117.5151              | -0.2539               | 123.1898              |
| ASTLA 0007060237480206070726 | 2000/07/06 02:39:48             | -0.9350         | 117.2943         | Full Mode       | L1A          | Day          | 0                  | -0.6069               | 117.2802              | -0.3858               | 123.0528              |
| ASTLA 0007060237570206070727 | 2000/07/06 02:39:57             | -1.4669         | 117.0594         | Full Mode       | L1A          | Day          | 0                  | -1.1388               | 117.0453              | -0.9177               | 122.9158              |
| ASTLA 0007060237660206070728 | 2000/07/06 02:40:06             | -1.9988         | 116.8245         | Full Mode       | L1A          | Day          | 0                  | -1.6707               | 116.8104              | -1.4496               | 122.7788              |
| ASTLA 0007060237750206070729 | 2000/07/06 02                   |                 |                  |                 |              |              |                    |                       |                       |                       |                       |

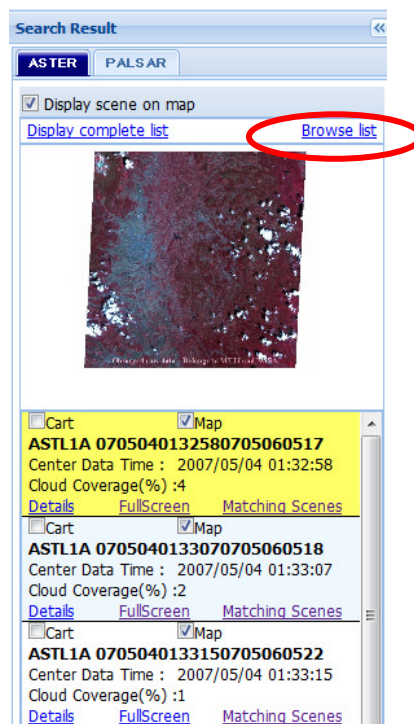


Fig. 2.6.9-1 Click [Browse list]

An example of ASTER Browse list is shown below.

| Show 10 entries (1)   |                     |                 |                   |              |      | (4)  |     |       | (6)      |      |
|---|---------------------|-----------------|-------------------|--------------|------|------|-----|-------|----------|------|
| Details   | Center Data Time    | Instrument Mode | Cloud Coverage(%) | Day or Night | WVIR | SWIR | TIR | First | Previous | Last |
| ASTL1A 0007040232120206040841<br>Level 1A<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2000/07/04 02:32:12 | Full Mode       | 11                | Day          |      |      |     |       |          |      |
| ASTL1A 0007040232210206040842<br>Level 1A<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2000/07/04 02:32:21 | Full Mode       | 7                 | Day          |      |      |     |       |          |      |
| ASTL1A 0007040232300206040843<br>Level 1A<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2000/07/04 02:32:30 | Full Mode       | 10                | Day          |      |      |     |       |          |      |
| ASTL1A 0007040232390206040844<br>Level 1A<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2000/07/04 02:32:39 | Full Mode       | 17                | Day          |      |      |     |       |          |      |
| ASTL1A 0007040232480206040845<br>Level 1A<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2000/07/04 02:32:48 | Full Mode       | 8                 | Day          |      |      |     |       |          |      |
| <input type="button" value="Add to Cart(ASTER)"/>   |                     |                 |                   |              |      |      |     |       |          |      |

Fig. 2.6.9-2 ASTER Browse list screen

**Table 2.6.9-1 Contents of ASTER Browse list screen**

| No. | Contents                    | Description   |
|-----|-----------------------------|---|
| (1) | Show entries pull-down menu | Number of scenes to display on a page is selected   |
| (2) | Inventory Information       | <p>The below inventory information is indicated in each column.</p> <ul style="list-style-type: none"> <li>- Detailed product information</li> <li>- Observation date and time of scene center</li> <li>- Observation mode</li> <li>- Cloud coverage (%)</li> <li>- Day or Night</li> </ul> <p>Product Detailed Info screen shows up when clicking [Full Screen] link under each granule ID. Also, scene can be selected for order by checking [Add to Cart].</p> <p>Order of scenes can be sorted by item name of selected column.</p> |
| (3) | Browse Images               | <p>Browse Images are displayed.</p> <p>In case browse image does not exist for the scene, a message [No Browse Image] appears. Browse image is enlarged on a new screen when clicking the image.</p>  |
| (4) | Paging                      | <p>Displayed page of search result list is switched by clicking [First], [Previous], [Next], [Last], or a page number.</p> <p>Scenes in search result list are displayed on a page up to the number of scenes specified by [ShowEntries] menu. If the search result has over the specified number of scenes, they are divided in plural pages</p>   |
| (5) | Add to Cart (ASTER)         | The scene is put into cart when [Add  |

|     |        |   |
|-----|--------|---|
|     |        | to Cart] is checked in the list.  |
| (6) | Search | Search is conducted for all the contents in the list, which partially match to the text entered in this box. Only the scenes to meet the search result are displayed. |

An example of PALSAR Browse list is shown below.

The screenshot shows the PALSAR Browse list interface. At the top, there is a 'Show 10 entries' pull-down menu (1) and a search bar (6). Below the search bar is a table with columns: Details, Center Data Time, Instrument Mode, Orbit Data, Ascending/Descending, Path, Row, and BROWSE. The table contains five rows of data, each representing a PALSAR scene. Each row has an 'Add to Cart' button (5) in the Details column. The BROWSE column shows thumbnail images of the satellite data. The table is paginated with 'First', 'Previous', '1', '2', '3', '4', '5', 'Next', and 'Last' buttons.

| Details   | Center Data Time    | Instrument Mode                             | Orbit Data               | Ascending/Descending | Path | Row | BROWSE |
|---|---------------------|---|--------------------------|----------------------|------|-----|--------|
| PASL100060427011039<br>PALSAR L1.0 DATA<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2006/04/27 01:10:39 | Fine Mode / HH / Off-Nadir Angle 34.3deg    | High Accuracy Orbit Data | DES                  | 58   | 298 |        |
| PASL100060515125344<br>PALSAR L1.0 DATA<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2006/05/15 12:53:44 | Polarimetric Mode / Off-Nadir Angle 21.5deg | High Accuracy Orbit Data | ASC                  | 400  | 70  |        |
| PASL100060515125352<br>PALSAR L1.0 DATA<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2006/05/15 12:53:52 | Polarimetric Mode / Off-Nadir Angle 21.5deg | High Accuracy Orbit Data | ASC                  | 400  | 71  |        |
| PASL100060515125400<br>PALSAR L1.0 DATA<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2006/05/15 12:54:00 | Polarimetric Mode / Off-Nadir Angle 21.5deg | High Accuracy Orbit Data | ASC                  | 400  | 72  |        |
| PASL100060515125409<br>PALSAR L1.0 DATA<br><a href="#">FullScreen</a><br><input type="checkbox"/> Add to Cart | 2006/05/15 12:54:09 | Polarimetric Mode / Off-Nadir Angle 21.5deg | High Accuracy Orbit Data | ASC                  | 400  | 73  |        |

At the bottom of the table, there is an 'Add to Cart(PALSAR)' button (5).

**Fig. 2.6.9-3 PALSAR Browse list screen**

**Table 2.6.9-2 Contents of PALSAR Browse list screen**

| No. | Contents                    | Description  |
|-----|-----------------------------|--|
| (1) | Show entries pull-down menu | Number of scenes to display on a page is selected  |
| (2) | Inventory Information       | The below inventory information is indicated in each column.<br>- Detailed product information |

|     |                      |   |
|-----|----------------------|---|
|     |                      | <ul style="list-style-type: none"> <li>- Observation date and time of scene center</li> <li>- Observation mode</li> <li>- Orbit Data</li> <li>- Ascending/Descending</li> <li>- Path</li> <li>- Row</li> </ul> <p>Product Detailed Info screen shows up when clicking [Full Screen] link under each granule ID. Also, scene can be selected for order by checking [Add to Cart].</p> <p>Order of scenes can be sorted by item name of selected column</p> |
| (3) | Browse Images        | <p>Browse Images are displayed.</p> <p>In case browse image does not exist for the scene, a message [No Browse Image] appears. Browse image is enlarged on a new screen when clicking the image.</p>  |
| (4) | Paging               | <p>Displayed page of search result list is switched by clicking [First], [Previous], [Next], [Last], or a page number. Scenes in search result list are displayed on a page up to the number of scenes specified by [ShowEntries] menu. If the search result has over the specified number of scenes, they are divided in plural pages</p>  |
| (5) | Add to Cart (PALSAR) | <p>The scene is put into cart when [Add to Cart] is checked in the list.</p>  |
| (6) | Search               | <p>Search is conducted for all the contents in the list, which partially match to the text entered in this box. Only the scenes to meet the search result are displayed.</p>  |

#### 2.6.10. Search Scenes Covering the Same Area

Click [Matching Scenes] on Search Result window to search scenes covering the same area

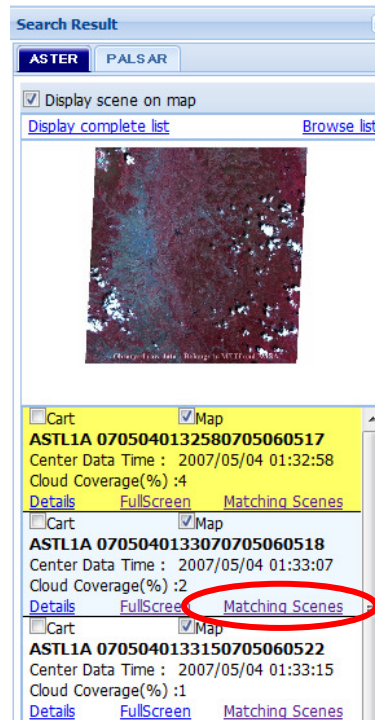


Fig. 2.6.10-1 Click [Matching Scenes]

A new window to specify the search conditions for the same area appears on a new window. The condition setting field for ASTER and PALSAR can be switched by tab.

**Matching Scenes** [X]

Search

**Sensor**

☒ ASTER ☒ PALSAR

**Search Date / Time**

Start Date: 2007/05/02 00:00:01

End Date: 2007/07/02 23:59:59

**details**

☒ All ☐ Continuous Time Range

☐ Annually Repeating Time Period

MM/DD - MM/DD

**ASTER** **PALSAR**

**Instrument Mode**

☒ Full Mode

☐ VNIR Only

☐ SWIR+TIR

☐ TIR Only

☐ Only scenes with valid SWIR data

**Cloud Coverage**

☒ Select cloud coverage 20% or less

**Fig. 2.6.10-2 Specify ASTER search conditions for Matching Scenes search**



**Matching Scenes**

Search

**Sensor**

☒ ASTER ☒ PALSAR

**Search Date / Time**

Start Date: 2007/05/02 00:00:01

End Date: 2007/07/02 23:59:59

**details**

☒ All ☐ Continuous Time Range

☐ Annually Repeating Time Period

MM/DD - MM/DD

**ASTER PALSAR**

**Instrument Mode**

☒ FBS

Off-nadir Angle: Any

Polarity: Any

☒ FBD

Off-nadir Angle: Any

Polarity: Any

☒ SCN

Cycle: Any

No. of Scans: Any

Polarity: Any

☒ PLR

Off-nadir Angle: Any

**Fig. 2.6.10-3 Specify PALSAR search conditions for Matching Scenes search**

The below conditions can be specified for ASTER.

- Observation mode
- Cloud coverage

See <Observation Mode> and <Cloud Coverage> of [2.5.1.2 Set Specific Search Conditions for ASTER] for how to specify.

The below condition can be specified for PALSAR.

- Observation mode

See <Observation Mode> of [2.5.1.3 Set Specific Search Conditions for PALSAR] for how to specify.

After setting search conditions, click [Search], and search result for scenes covering the same area is shown on the Search Result screen.

Scenes to order can be selected and put into cart from the search result.

**Target Scene**

(1) Center Date Time : 2000/06/14 11:25:45  
 Granule ID : AST11A\_00084052460211081200  
 Center Latitude : 33.534432  
 Center Longitude : 130.847527  
 Day or Night : Day  
 Cloud Coverage(%) : 0  
 Instrument Mode : Full Mode  
[Full Screen](#)

(2) (3)

**Matching Scenes**

ASTER PALSAR

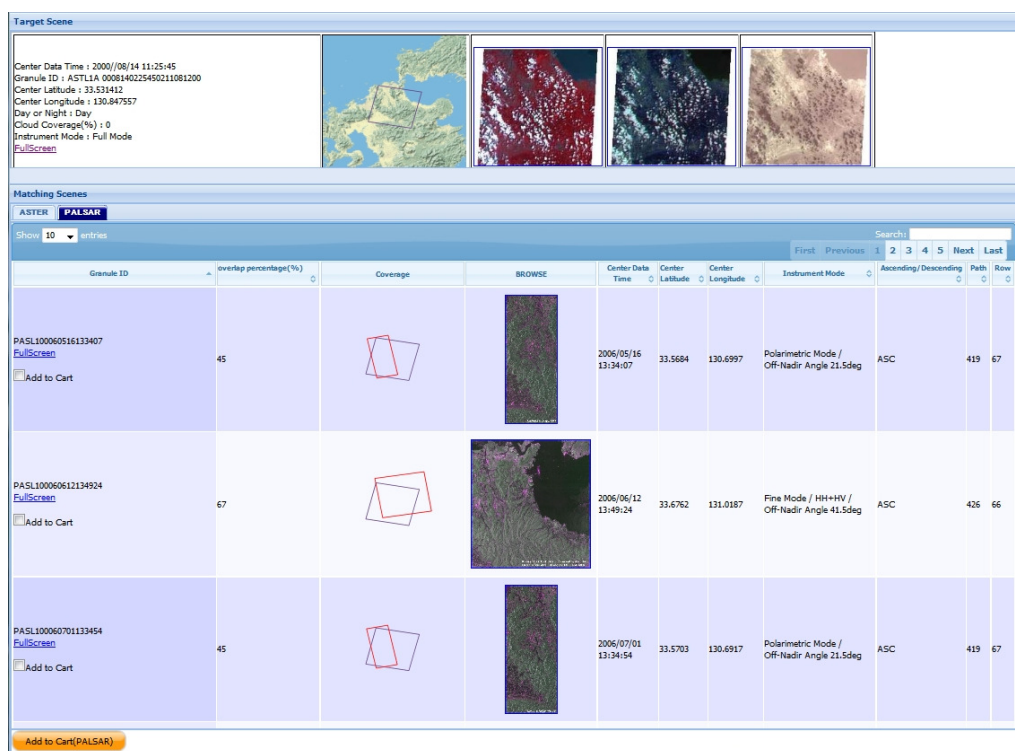
Show 10 of 10

(4) (5) (6) (8)

| Granule ID  | Coverage percentage(%) | Coverage | YNER | SWER | TIR | Center Date Time    | Center Latitude | Center Longitude | Instrument Mode | Cloud Coverage(%) | Day or Night |
|---|------------------------|----------|------|------|-----|---------------------|-----------------|------------------|-----------------|-------------------|--------------|
| AST11A_0402150211410403040664<br><a href="#">Full Screen</a><br><a href="#">Add to Cart</a> | 100                    | (7)      |      |      |     | 2004/10/15 00:11:41 | 33.5309         | 130.8512         | Full Mode       | 1                 | Day          |
| AST11A_04122020320412170004<br><a href="#">Full Screen</a><br><a href="#">Add to Cart</a>   | 49                     |          |      |      |     | 2004/11/22 00:03:25 | 33.7279         | 131.0423         | Full Mode       | 20                | Day          |
| AST11A_0507270210240508010326<br><a href="#">Full Screen</a><br><a href="#">Add to Cart</a> | 89                     |          |      |      |     | 2005/07/27 00:10:34 | 33.5204         | 130.9201         | Full Mode       | 9                 | Day          |

(9) Add to Cart(ASTER)

**Fig. 2.6.10-4 ASTER search result for Matching Scenes**



**Fig. 2.6.10-5 PALSAR search result for Matching Scenes**

**Table 2.6.10-1 Contents of Search Result for Matching Scenes**

| No. | Contents                                  | Description   |
|-----|---|---|
| (1) | Inventory Information of target scene     | Inventory information of the target scene specified in the search result list is shown.   |
| (2) | Scene area of target scene on map         | Coverage of the target scene is shown on map.   |
| (3) | Browse images of target scene             | Browse images of the target scene is shown.   |
| (4) | ASTER/PALSAR tab                          | Display of search result for ASTER and PALSAR is switched by tab.   |
| (5) | Show entries                              | Number of scenes to display on a page is selected from pull-down menu   |
| (6) | Search                                    | Search is conducted for all the contents in the list, which partially match to the text entered in this box. Only the scenes to meet the search result are displayed. |
| (7) | Inventory Information on retrieved scenes | The following inventory information is shown.<br>[ASTER]  |

|     |                            |  |
|-----|----------------------------|--|
|     |                            | <ul style="list-style-type: none"> <li>- Detailed Product Information</li> <li>- Scene coverage</li> <li>- Browse images</li> <li>- Overlap rate (%)</li> <li>- Observation date and time of scene center</li> <li>- Observation mode</li> <li>- Cloud coverage (%)</li> <li>- Day or Night</li> </ul> <p>[PALSAR]</p> <ul style="list-style-type: none"> <li>- Detailed Product Information</li> <li>- Scene coverage</li> <li>- Browse image</li> <li>- Overlap rate (%)</li> <li>- Observation date and time of scene center</li> <li>- Observation mode</li> <li>- Ascending / Descending</li> <li>- Path</li> <li>- Row</li> </ul> <p>Detailed Product Info screen is displayed when clicking [Full Screen] link under each granule ID. Also, scene can be selected for order by checking [Add to Cart].</p> <p>Coverage shows how the target scene (purple line) and the retrieved scene (red line) overlap.</p> |
| (8) | Paging                     | <p>Displayed page of search result list is switched by clicking [First], [Previous], [Next], [Last], or a page number. Scenes in search result list are displayed on a page up to the number of scenes specified by [ShowEntries] menu. If the search result has over the specified number of scenes, they are divided in plural pages</p>   |
| (9) | Add to Cart (ASTER/PALSAR) | <p>Scenes which are checked for [Cart] are put in Cart. This procedure must be done for ASTER and PALSAR respectively.</p>   |

### 2.6.11. Download AOI Search Result

To download AOI search result, select the scene to save the information of interferometry pair from the search result list and check [CSV] for the scene.

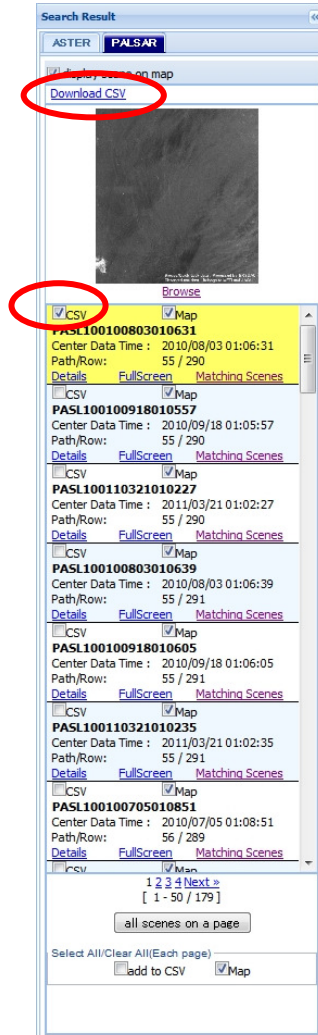


Fig. 2.6.11-1 Save the selected master image in CSV file

Next, click [Download CSV]. As the file-saving function starts according to the web browser, save the result as CSV file. The default file name is the following. Change the file name if necessary.

Master\_slave\_[12-digits random number]\_[year month date hour minute second when file is created].csv

## 2.7.Order Data Product

### 2.7.1. Order ASTER Data Product

By putting scenes in the search result list into cart (See [2.6.6 Put Scenes in Cart]), scenes in the Browse list into cart (See [2.6.9 Display Browse List]), or scenes covering the same area into cart (See [2.6.10 Search Scenes Covering the Same Area]), ASTER scenes can be put into cart. When the selected scenes are put in cart by one of the above methods, Product Estimate/Order screen of ASTER GDS shows up on a new window with the selected scenes in cart.

In case ASTER GDS User certification has not been done, User Certification (Login) screen appears.

**Product Estimate/Order**

Buttons: DPR Menu, Main Menu, Help

| Data Center | Dataset ID | Granule/Package ID            | Proc. Level | Product Type | Size | PG | PG Set | Target Product Type | Media Type |
|-------------|------------|-------------------------------|-------------|--------------|------|----|--------|---------------------|------------|
| ASTER_GDS   | ASTL1A     | ASTL1A 1007080126261007120529 | 1a          | 1A           | 111  | No | No     |                     |            |

Buttons: Parameter Copy Request, Delete Request, Condition Setting for Processing Request, Parameter Paste Request, Media & Format & Payment Select, Estimated Price & Date, Submit Order

**ERSDAC**  
Earth Remote Sensing Data Analysis Center

**Fig. 2.7.1-2 Product Estimate/Order screen of ASTER GDS**

Ordering procedures are performed on this screen. For details on ordering procedure, see [16. Product Order Page] on the left side menu of [DPR] on top menu of the below URL.

<http://ims.aster.ersdac.jspace systems.or.jp/ims/html/Help/HelpMenu.html>

### 2.7.2. Order PALSAR Data Products

By putting scenes in the search result list into cart (See [2.6.6 Put Scenes in Cart]),

scenes in the Browse list into cart (See [2.6.9 Display Browse List]), or scenes covering the same area into cart (See [2.6.10 Search Scenes Covering the Same Area]), PALSAR scenes can be put into cart. When the selected scenes are put in cart by one of the above methods, Product Order screen of PALSAR GDS shows up on a new window with the selected scenes in cart.

In case PALSAR GDS User certification has not been done, User Certification (Login) screen appears.

| Home  | Search Product- Request(DPR) | Cart              | DPR Status | Directory Information | Observation Status | Help       | Representation Input | Sign in: yoshino1            | User Profile         | Sign out               |
|---|------------------------------|-------------------|------------|-----------------------|--------------------|------------|----------------------|------------------------------|----------------------|------------------------|
| <b>Cart</b>   |                              |                   |            |                       |                    |            |                      |                              |                      |                        |
| <b>Product Order</b>  |                              |                   |            |                       |                    |            |                      |                              |                      |                        |
| <p align="center"><b>NOTICE</b></p> <p>All the granules you selected to order are listed below.</p> <ol style="list-style-type: none"> <li>1. Set items for your order.</li> <li>2. Click the "Quotation &amp; Shipping Estimate" button to view your finish estimate and quotation after you set Media Type and PG Parameters.</li> <li>3. Click the "Submit DPR" button when you finish to set.</li> <li>4. You can put into cart to 50 products.</li> <li>5. You can put into cart to 99 base granules.</li> <li>6. You can order up to 11 long products at one time.</li> </ol> |                              |                   |            |                       |                    |            |                      |                              |                      |                        |
| No.   | Granule ID                   | Observation Mode  | Scene No.  | Target Product Type   | PG Parameter       | Media Type | Scene Shift          | Long Specify                 | Copy                 | Delete                 |
| 1   | PASL100070630154552          | Fine Mode (HH+HV) | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |
| 2   | PASL100070630154600          | Fine Mode (HH+HV) | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |
| 3   | PASL100070630154608          | Fine Mode (HH+HV) | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |
| 4   | PASL100070630154552          | Fine Mode (HH+HV) | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |
| 5   | PASL100070630154600          | Fine Mode (HH+HV) | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |
| 6   | PASL100070630154608          | Fine Mode (HH+HV) | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |
| 7   | PASL100070630154608          | Fine Mode (HH+HV) | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |
| 8   | PASL100070630154608          | Fine Mode (HH+HV) | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |
| 9   | PASL100070630154608          | Fine Mode (HH+HV) | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |
| 10  | PASL100061112203654          | Polarimetric Mode | 1          | L1.0 ▾                | -                  | Online ▾   | 0% Update            | <a href="#">Specify Long</a> | <a href="#">Copy</a> | <a href="#">Delete</a> |

**Fig. 2.7.2-2 Product Order screen of PALSAR GDS**

Ordering procedures are performed on this screen. For details on ordering procedure, see [Ordering Products] on the left side menu of the below URL.

[https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1\\_e/DPR\\_e/top\\_dpr\\_e.html](https://ims.palsar.ersdac.jspacesystems.or.jp/help/ims1_e/DPR_e/top_dpr_e.html)

### 3. Operations on Map

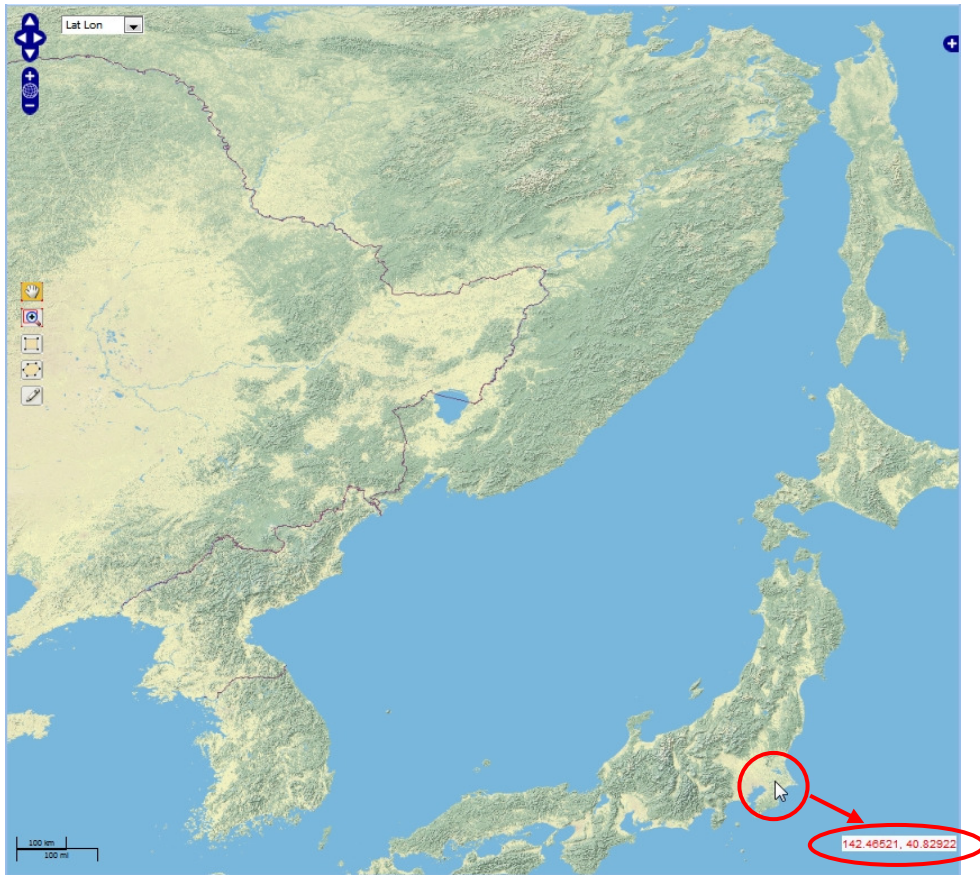
Map is used to specify search area and confirm search result. The below operations can be performed on map.

#### 3.1.Display Latitude and Longitude of Mouse Position

When mouse is placed on the map area, the latitude and longitude of the position where



mouse cursor point is shown on the right bottom of the map area.



**Fig. 3.1-1 Lat and Lon of mouse position**

### **3.2.Zoom-in and Zoom-out**

The following functions are available to zoom-in and zoom-out the map

- + - button
- Mouse wheel
- Magnifier icon (for zoom-in only)
- Double-click in the map area (for zoom-in only)

#### **[+- button]**

The displayed area is zoomed in or out with the area in the center, when clicking +- button on top left of map area. Also, when clicking the globe icon between + and - buttons, the map is zoomed out to the global size.

#### **[Mouse Wheel]**

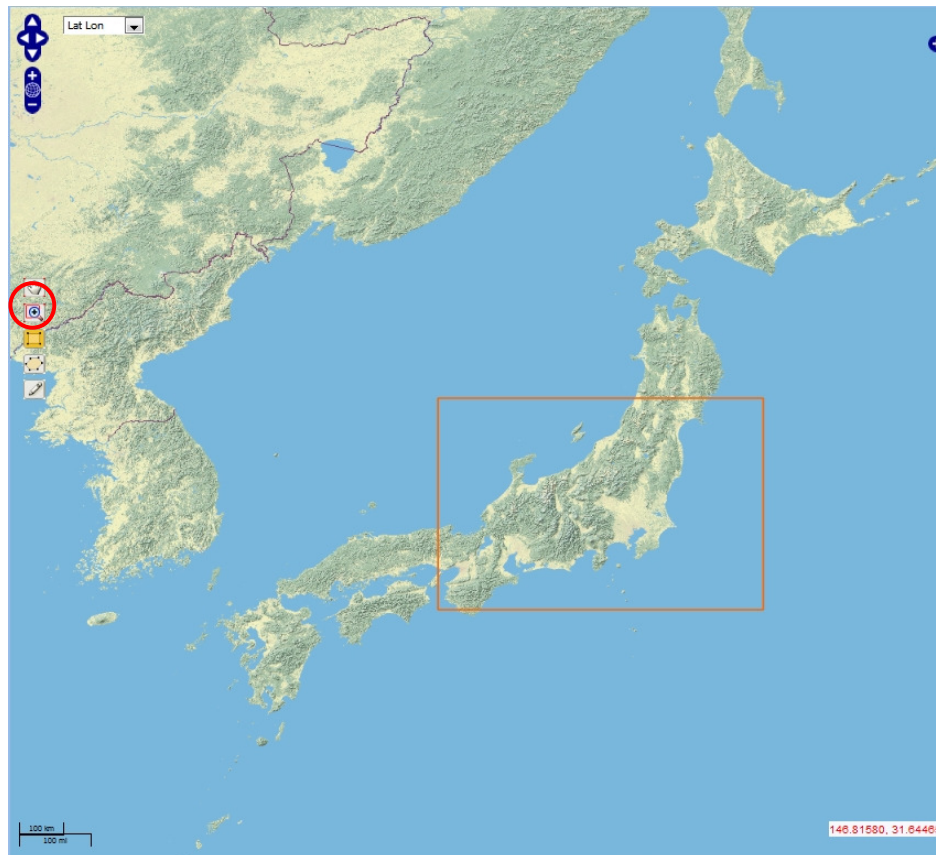


When mouse wheel is turn upward, the map is zoomed in with the area in the center. Or, when mouse is turn downward, the map is zoomed out with the area in the center.

#### **[Magnifier Icon (for zoom-in only)]**

Magnifier icon can zoom in the specified area. Firstly, click the magnifier icon in the middle of left side of map area. After clicking this icon, keep the mouse left-clicked and drag it in map area, and a rectangle appears. Frame the area in rectangle and release the mouse to zoom in the specified area.

This function is available for zoom-in only.



**Fig. 3.2-1 Specify an area to zoom-in by magnifier icon**

#### **[Double-click in map area (for zoom-in only)]**

Double-click mouse in map area, and the displayed area is zoomed in with the double-clicked area in the center.

### **3.3.Move Map Area on Screen**

The following methods area available to move the displayed map area.

- Arrow buttons

- Palm icon

### [Arrow buttons]

Click the arrows of right, left, up and down on top left of map area, and the displayed map area can be moved.



### [Palm icon]

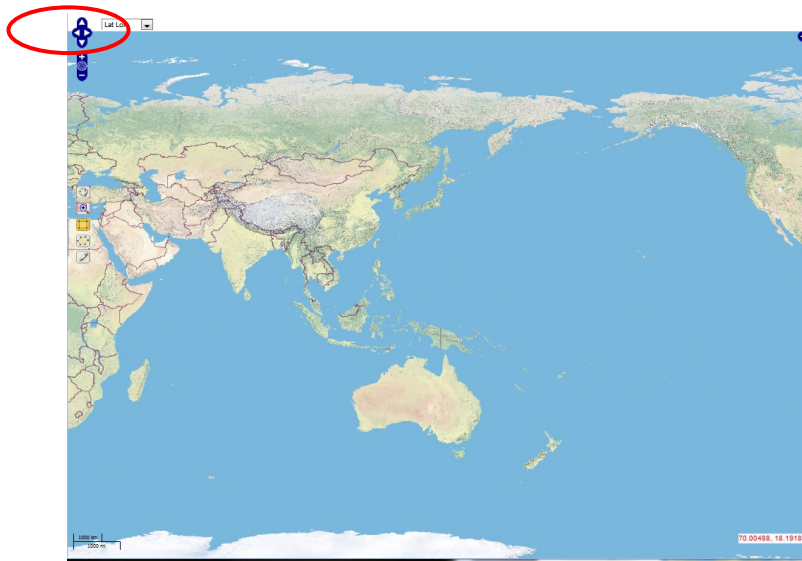
Palm icon can move the map area displayed on screen by dragging mouse in map area. Click the palm icon in the middle of left side on map area. After clicking this icon, drag the mouse to move the displayed map area.



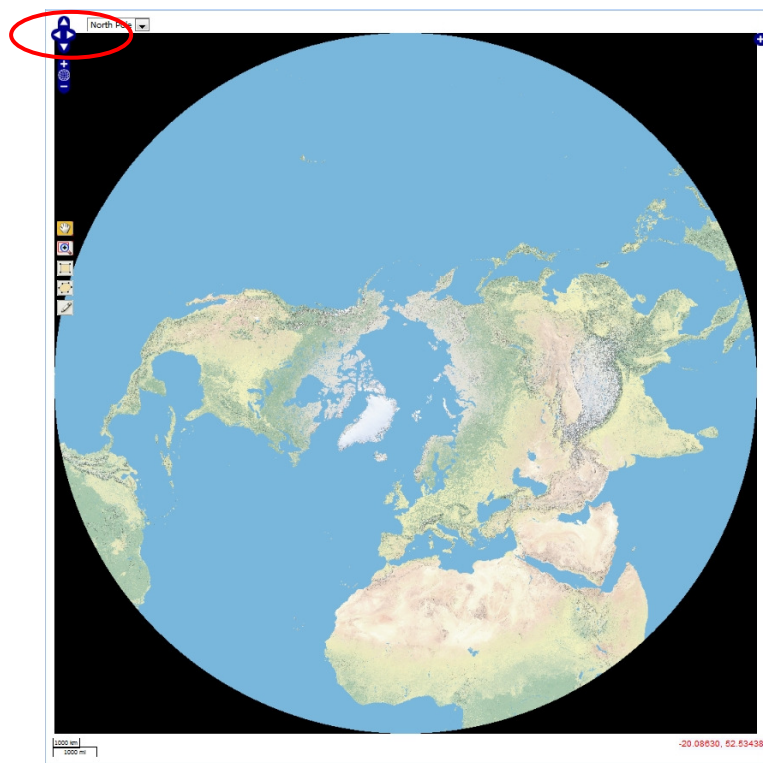
## 3.4. Select Map Projection

Select map projection. Combo box to show the available map projections is on top of map area. Select a map projection from this combo box. The available map projections are as follows.

- Lat Lon : Uniform Lon/Lat (EPSG:4326)
- North Pole : Universal Polar Stereographic North (EPSG: 32661)
- South Pole : Universal Polar Stereographic South (EPSG: 32761)



**Fig. 3.4-1 Example of map display when Lat Lon projection is selected**



**Fig. 3.4-2 Example of map display when North Pole projection is selected**



**Fig. 3.4-3 Example of map display when South Pole projection is selected**

### 3.5.Specify Search Area in Rectangle

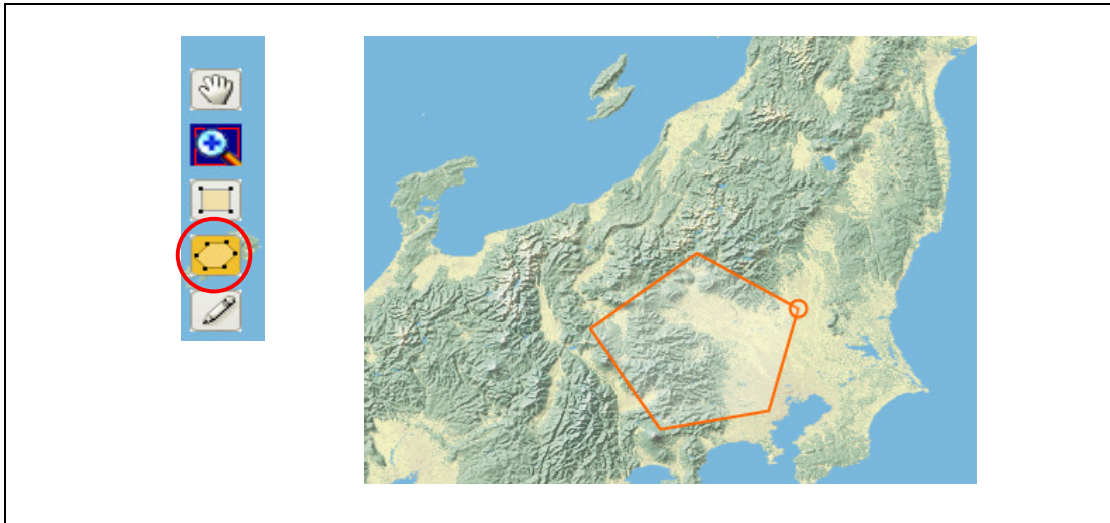
Click the icon showing rectangle in the middle of left side of map area to draw a rectangle on the map. The specified area in rectangle is targeted for search.



**Fig. 3.5-1 Specify the area in rectangle**

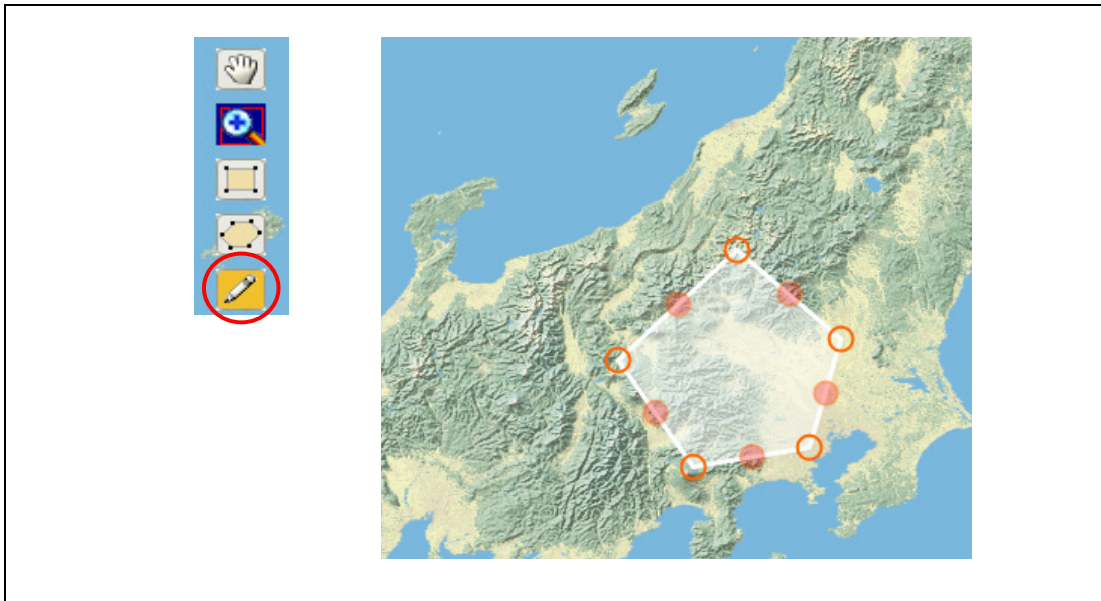
### 3.6.Specify Search Area in Polygon

Click the icon showing polygon in the middle of left side of map area to draw a polygon on map. Each vertex of the polygon can be specified by clicking mouse. To close the polygon, double-click the mouse. The area specified in polygon is targeted for search. Number of polygon's vertex must be between 3 and 1000.



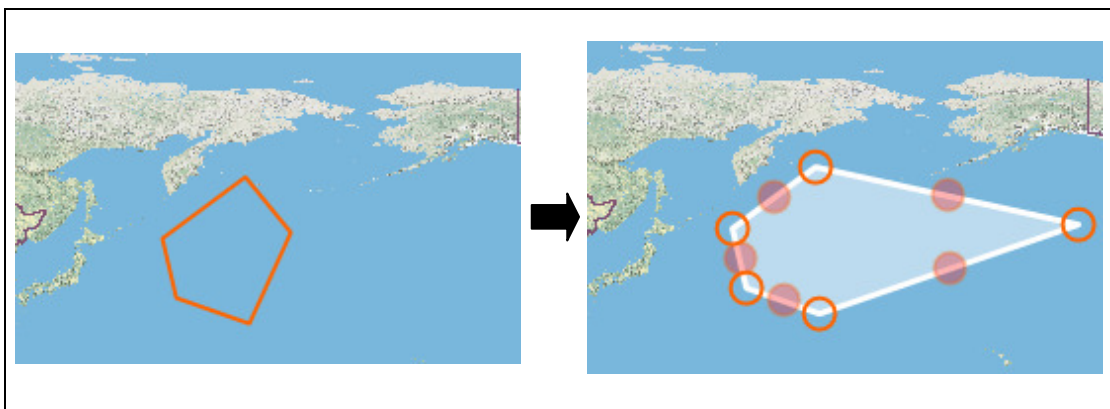
**Fig. 3.6-1 Specify the area in polygon**

Click the pencil icon to edit the polygon area. After selecting the polygon to edit, the vertex can be changed when moving a vertex (indicated in unfilled circle) with mouse. Vertex can be added by moving the point between two vertexes (indicated in filled circle) with mouse.



**Fig. 3.6-2 Edit the polygon area**

When drawing a polygon, the polygon area cannot be across the longitude 180 degrees. If the polygon needs to be drawn across the longitude 180 degrees, draw and fix the polygon in the area not across 180 degrees, and edit vertexes of the polygon, which enables to specify a polygon across the longitude 180 degrees.

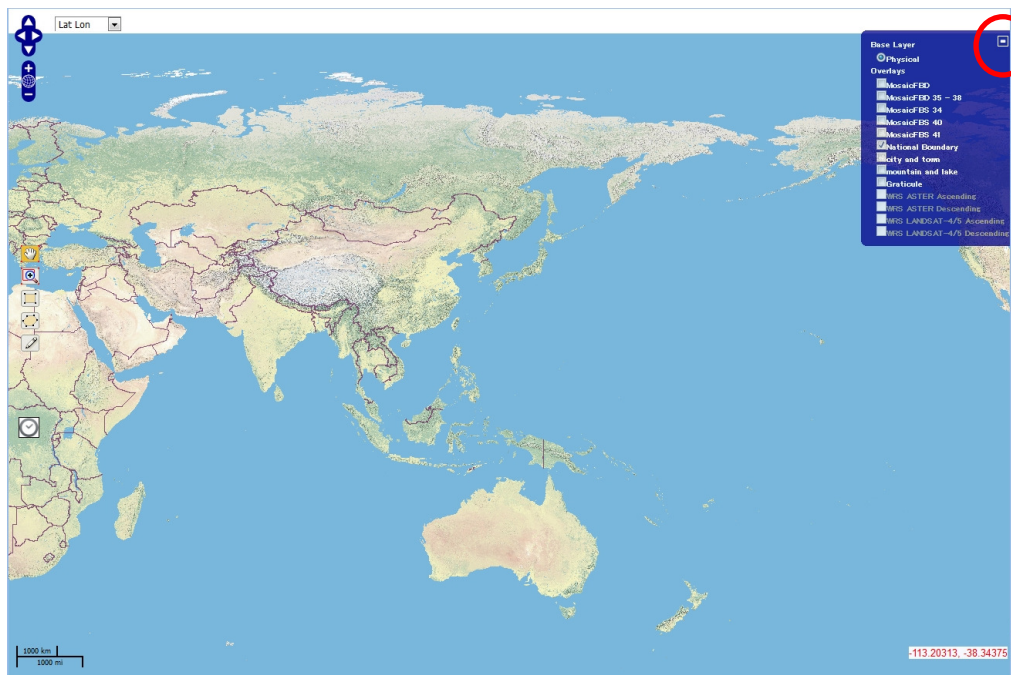


**Fig. 3.6-3 Draw the polygon area across the longitude 180 degrees**

### 3.7.Switch Layers

Map layers can be switched. To switch the layer, click [+] mark and spread out the menu on the top right of map area.





**Fig. 3.7-1 Switch Layers**

Following layers can be displayed on the map. Some layers are displayed only in the specific condition.

**Table 3.7-1 Types of Layers**

| Layer type   | Layer name              | Condition to display  | Description        |
|--------------|-------------------------|---|--------------------|
| Base Map     | Physical                | Always displayed<br>[Display according to map projection]<br>Lat Lon: Possible<br>North Pole: No<br>South Pole: No      | Terrain Map        |
| Mosaic Image | Some, such as MosaicFBD | Displayed after login<br>[Display according to map projection]<br>Lat Lon: Possible<br>North Pole: No<br>South Pole: No | Mosaic Image       |
| Geographical | city and town           | Always displayed at above a certain   | Name of countries, |

|              |                              |  |  |
|--------------|------------------------------|--|--|
| name         |                              | magnification rate<br>[Display according to map projection]<br>Lat Lon: Possible<br>North Pole: No<br>South Pole: No   | capital cities, and cities   |
|              | mountain and lake            | Always displayed at above a certain magnification rate<br>[Display according to map projection]<br>Lat Lon: Possible<br>North Pole: No<br>South Pole: No             | Name of mountains and lakes  |
| Vector Layer | National Boundary            | Always displayed<br>[Display according to map projection]<br>Lat Lon: Possible<br>North Pole: Possible<br>South Pole: Possible                                       | National Borders   |
|              | Graticule                    | Always displayed<br>[Display according to map projection]<br>Lat Lon: Possible<br>North Pole: Possible<br>South Pole: Possible                                       | Grid lines   |
|              | WRS      ASTER<br>Ascending  | Always displayed at above a certain magnification rate<br>[Display according to map projection]<br>Lat Lon: Possible<br>North Pole: Possible<br>South Pole: Possible | ASTER's nadir scene boundary observed from nominal ascending orbit |
|              | WRS      ASTER<br>Descending | Always displayed at above a certain magnification rate<br>[Display according to map projection]  | ASTER's nadir scene boundary observed from nominal descending      |



|  |                              |  |   |
|--|------------------------------|--|---|
|  |                              | Lat Lon: Possible<br>North Pole: Possible<br>South Pole: Possible  | orbit   |
|  | WRS LANDSAT-4/5<br>Ascending | Always displayed at above a certain<br>magnification rate<br>[Display according to map<br>projection]<br>Lat Lon: Possible<br>North Pole: Possible<br>South Pole: Possible | LANDSAT's nadir<br>scene boundary<br>observed from<br>nominal ascending<br>orbit  |
|  | WRS LANDSAT-4/5<br>Ascending | Always displayed at above a certain<br>magnification rate<br>[Display according to map<br>projection]<br>Lat Lon: Possible<br>North Pole: Possible<br>South Pole: Possible | LANDSAT's nadir<br>scene boundary<br>observed from<br>nominal descending<br>orbit |

#### [ Display/Non-display Mosaic Image ]

When selecting layer, check a name of Mosaic image such as MosaicFBD to display the mosaic image on the map, and uncheck to non-display. This function is available only when being logged in as ASTER or PALSAR user.

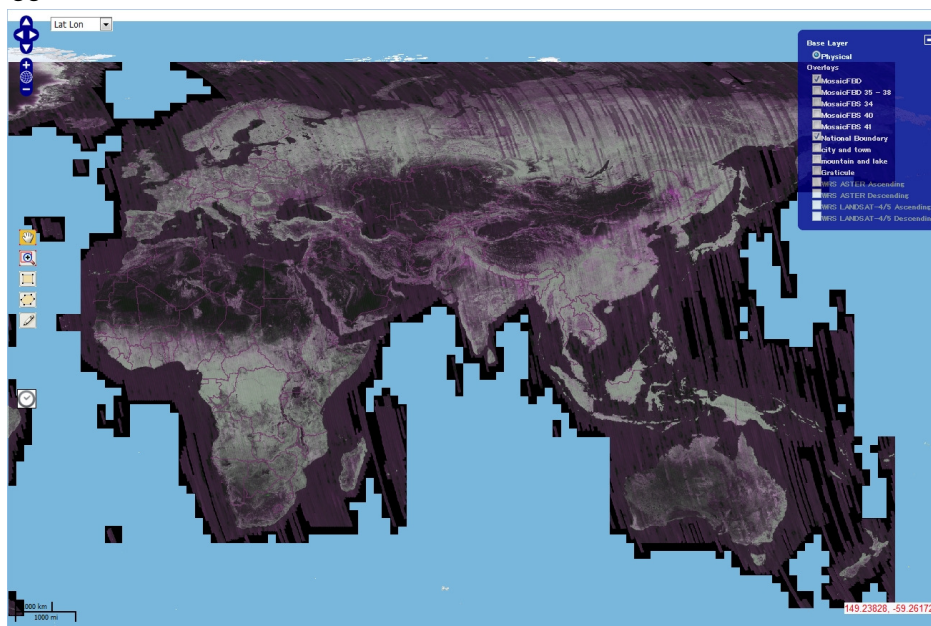


Fig. 3.7-2 Map with mosaic image overlaid

### [ Display/Non-display Geographical Name ]

Check or uncheck name of layer (city and town, mountain and lake) in the layer field to switch the display of geographical names on the map. The displayed geographical names change according to map scale.

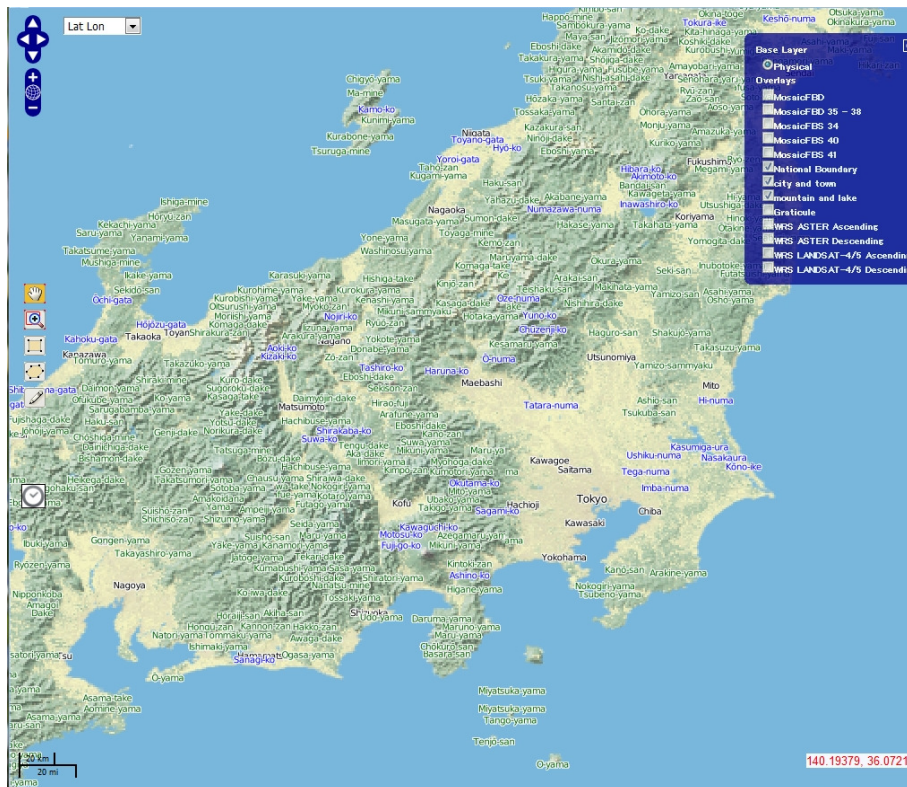


Fig. 3.7-3 Map with geographical names overlaid

### [ Display/Non-display Vector Layer ]

Check or uncheck boxes of vector layers such as grid line to switch the display and non-display on the map.

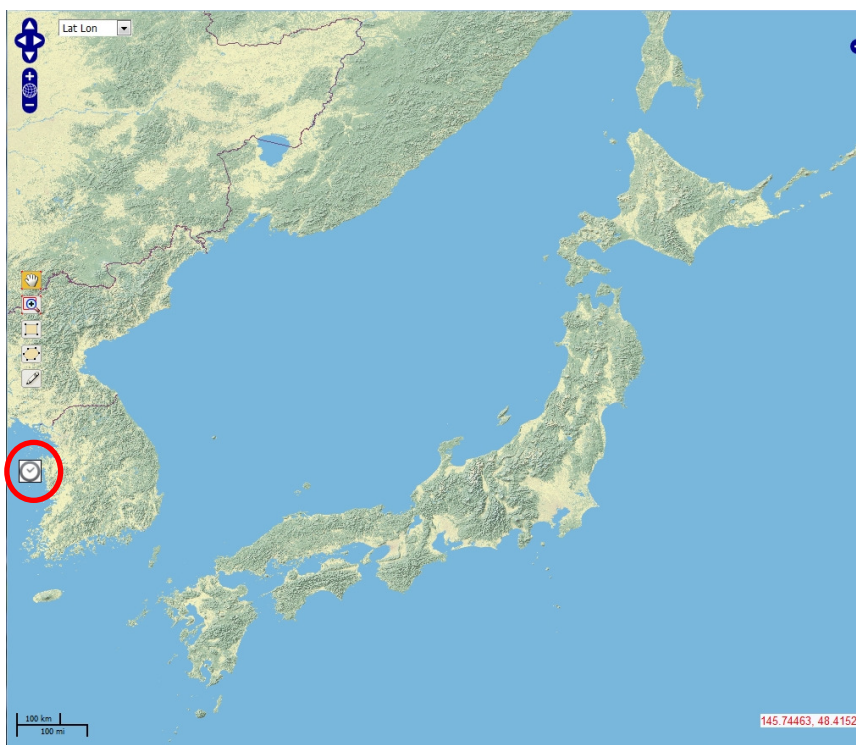
## 3.8.Display Background Images in Time Series Order

Mosaic images can be displayed in time series order as background layer. A button to open control panel of time series layer is at the left bottom of map area. This button is displayed only when being logged in as ASTER or PALSAR user. Also, this button is displayed when the map projection is Lat Lon only. In case the map projection is North

Pole or South Pole, this button is not shown (Time series display of background image is not available for North Pole and South Pole).

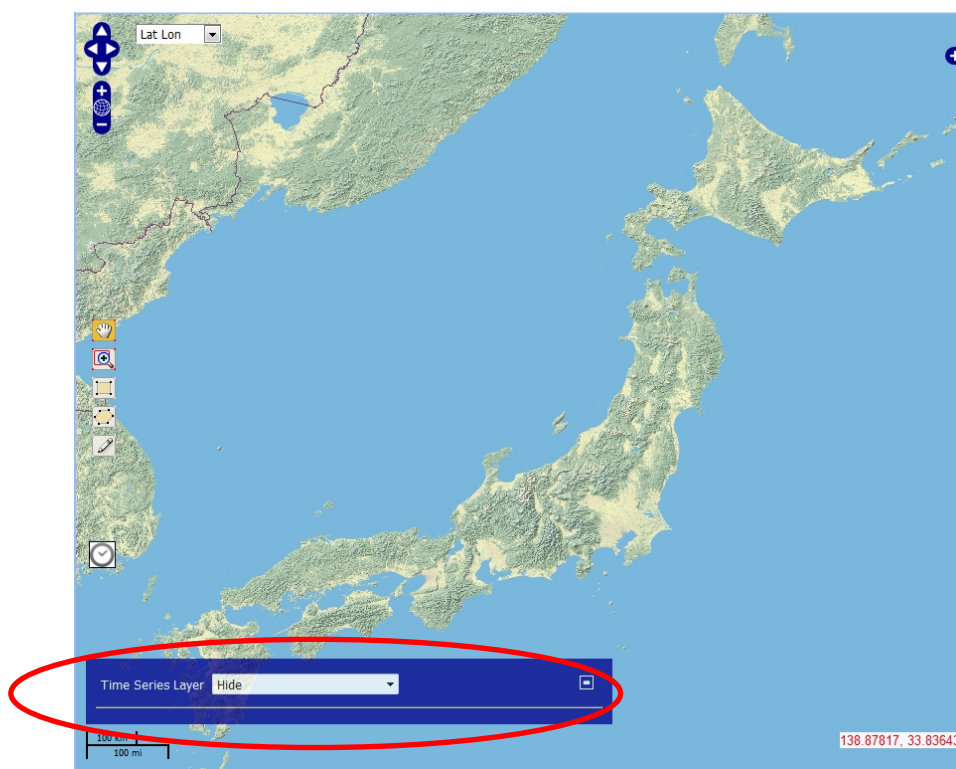
When using time series layers, layers other than the below cannot be displayed on the map.

- city and town
- mountain and lake
- National Boundary



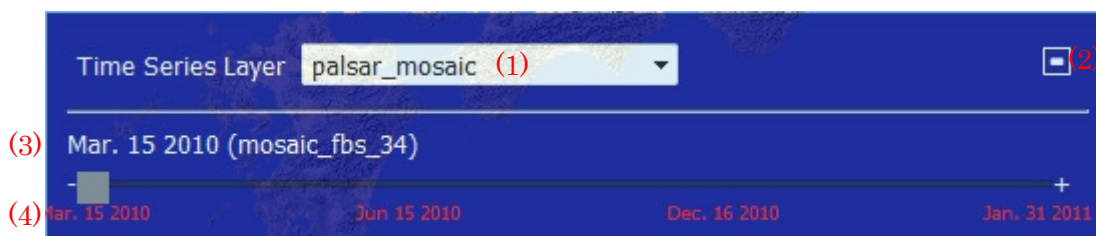
**Fig. 3.8-1 Button to open control panel of time series layers**

Click the button to open control panel of time series layers.



**Fig. 3.8-2 Open control panel of time series layers**

Select a time series layer. The below figure is the close-up of control panel.



**Fig. 3.8-3 Close-up of time-series layers control panel**

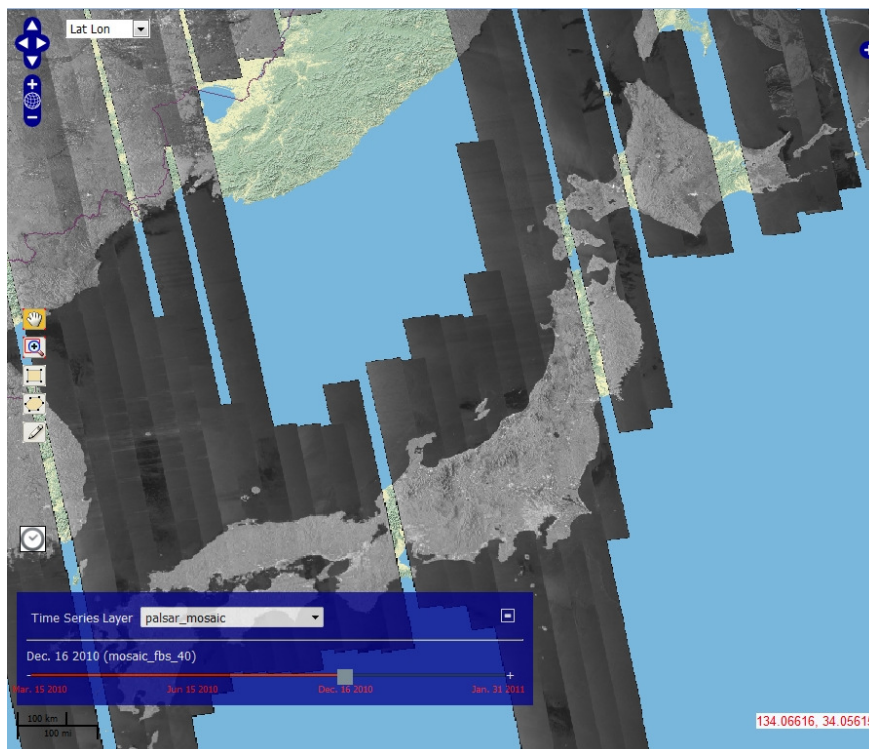
**Table 3.8-1 Contents of Control Panel of Time Series Layers**

| No. | Contents                              | Description   |
|-----|---------------------------------------|---|
| (1) | Drop-down list for Time Series Layers | Time series layer to display is selected from this list                         |
| (2) | Button to close                       | Control panel is closed.  |
| (3) | Recurrent Information                 | Recurrence information is displayed according to the slider position            |
| (4) | Slider to choose recurrence           | When a recurrence is chosen, the corresponding mosaic image is overlaid on map. |

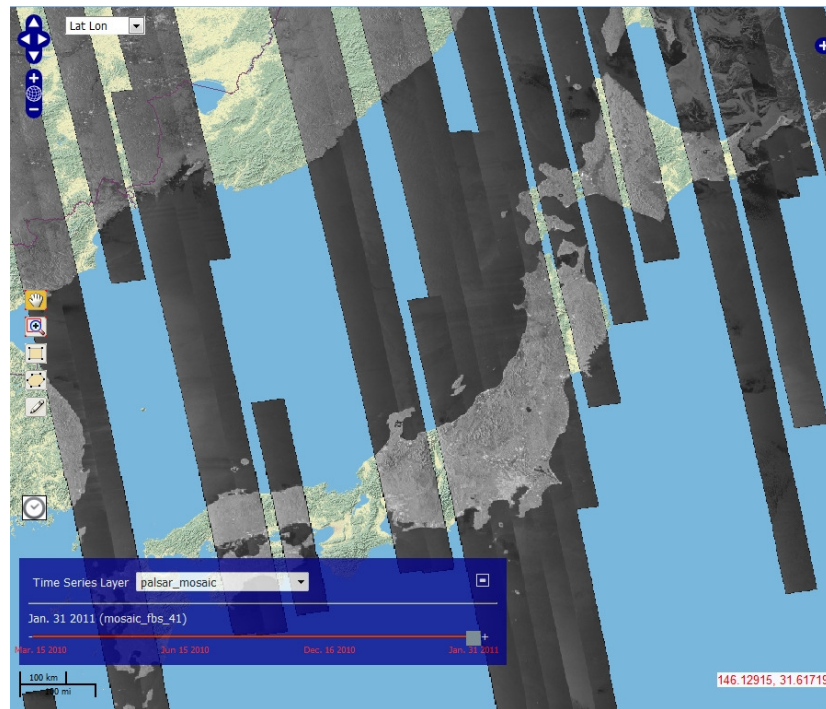


|  |  |   |
|--|--|---|
|  |  | <p>Slider is adjustable right and left by mouse.</p> <p>Arrow keys of key board can move the slider when the slider is active.</p> <p>+ and - buttons can move slider right and left.</p> |
|--|--|---|

Choose a recurrence using the slider, and the mosaic image corresponding to the chosen recurrence is overlaid on map.



**Fig. 3.8-4 Map with a time series layer overlaid (2010-12-16)**



**Fig. 3.8-5 Map with time series layer overlaid (2011-01-31)**